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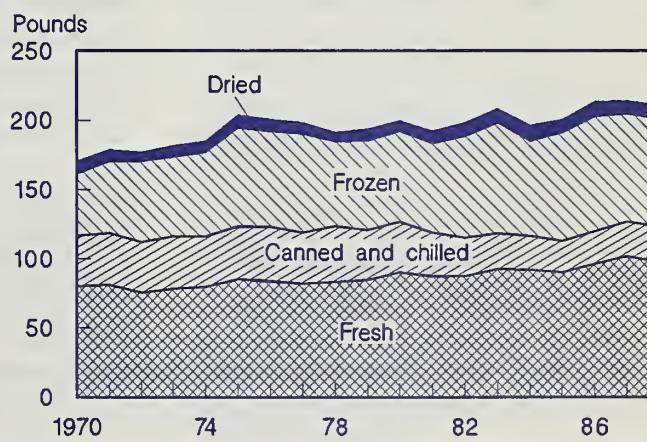
Economic
Research
Service

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August 1989

Fruit and Tree Nuts

Situation and Outlook Yearbook

Per Capita Fruit Consumption



Fresh—equivalent basis. Canned and chilled includes fruit and juices.
Frozen includes fruit and juices. 1988 preliminary.

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Approved by the World Agricultural Outlook Board. Summary released Tuesday, August 1, 1989. The summary of the next *Fruit and Tree Nuts Situation and Outlook* is scheduled for release September 7, 1989. Summaries and full Situation and Outlook reports, including tables, may be accessed electronically through the USDA EDI System. For details, call (202) 447-5505.

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Dr. Ben Huang announced his retirement from the Economic Research Service (ERS) effective July 28, 1989. Dr. Huang joined ERS in 1967 and has been a principal author of the *Fruit and Tree Nuts Situation and Outlook Report* since 1973. Over the years with the ERS, Dr. Huang provided economic data, outlook, and analysis on the U.S. and world fruit and tree nut industries to government policy makers, researchers, industry leaders, and the general public. His depth of understanding of the fruit and tree nut industries will be sorely missed among his colleagues in and out of ERS. Our best wishes go with Ben in his retirement.

Summary

Fruits

Fruit Production Down Fractionally

U.S. utilized fruit production totaled 28.6 million short tons in 1988, up 1 percent from 1987, as the larger citrus crop more than offset the smaller noncitrus crop. U.S. citrus production continues to recover from the early 1980's freezes in Florida and Texas.

The 1987/88 citrus crop was estimated at 12.7 million short tons, up almost 6 percent from 1986/87. Larger crops of oranges, grapefruit, tangelos, and temples more than offset decreased production of lemons, limes, and tangerines. Although the citrus crop was the largest since 1982/83, it was still sharply below the record 16.5 million short tons in 1979/80.

U.S. citrus bearing acreage continued to rise in 1987/88, with oranges leading the increase. Grapefruit, lime, and temple acreage posted slight increases, but lemon and tangelo acreage fell fractionally. Tangerine acreage has remained unchanged. Citrus acreage is not expected to return to 1974/75's record high 1.2 million for many years.

Utilized production of noncitrus fruit (including strawberries) in 1988 amounted to 15.8 million short tons, off 1 percent from 1987. Early spring frost, high temperatures, drought, hail storms, and tree stress from the previous year's bumper crop all contributed to a smaller harvest of many noncitrus fruits. The greatest decreases were in apples, pears, pineapples, and California plums and prunes, which more than offset increases in cranberries, grapes, peaches, and strawberries. Although bearing acreage decreased slightly in 1988, yield per acre fell slightly below 1987. Reduced acreage was reported for grapes, peaches, and tart cherries.

Grower Prices Steady But Retail Prices Strong

Despite larger production in 1988, the index of prices received by growers for fresh and processing fruit remained unchanged from 1987. Noncitrus fruit prices were below a year ago, while citrus fruit prices remained strong. However, higher marketing costs and strong demand kept retail fruit prices firm. Retail prices of fresh fruit averaged 8 percent above 1987, due primarily to high banana prices. Retail prices of processed fruit also rose, with higher prices recorded for all items.

Citrus for Processing Use Up

Primarily because of the substantially larger Florida orange crop, the volume and share of citrus production used for processing during 1987/88 were up moderately from 1986/87. U.S. oranges for processing use totaled 6.5 million short tons in 1987/88, up 15 percent from 1986/87, and consequently,

the proportion of oranges used for processing rose from 73 percent in 1986/87 to 76. Although U.S. grapefruit used for processing rose 5 percent, the share of production fell from 54 percent to 52 percent. A sharply smaller 1987/88 lemon crop caused processing use to drop well below a year earlier.

There were some changes in the relative importance of processing uses for different products. The quantities of Florida oranges processed (includes tangelos, temples, tangerines, and K-early citrus) were up for frozen concentrated orange juice (FCOJ) and chilled products, but fell for other products, including cannery juice, blends, and sections and salads. The proportion used for chilled products increased, while that for FCOJ and other products declined.

Florida grapefruit used for processing totaled 31 million boxes, up almost 7 percent from 1986/87. Florida grapefruit used for frozen concentrated grapefruit juice totaled 27 million boxes, up almost 11 percent, and accounted for 87 percent of the grapefruit processed, versus 84 percent in 1986/87. Grapefruit used for both chilled juice and other processed products, including cannery juice, blends, and sections and salads, declined 14 percent, and their shares also fell.

Shares of Noncitrus Used For Fresh and Processing Steady

Smaller noncitrus production in 1988 resulted in reduced fresh and processing use from 1987, but the relative proportions of each only changed slightly. However, there were some shifts in the relative importance of canning, drying, freezing, crushing, and other types of processing (mainly brined).

Because of improved export and domestic demand for canned fruit, the share of deciduous fruit used for canning has risen. In 1988, canning accounted for almost 26 percent of processing use of noncitrus fruit, compared with 24 percent in 1987. Likewise, greater use of grapes for drying added greatly to drying's share of processing use of noncitrus. Nevertheless, the proportions of noncitrus fruit for drying were almost the same as for canning in both 1987 and 1988. Increased use of dried fruit for breakfast cereals and snack food has probably increased the share for drying, particularly for grapes.

Because of a much smaller crop, the use of 1988-crop apples for juice declined sharply. In addition, the smaller grape crop in the Great Lake States and Washington significantly reduced the utilization for juice. As a result, the quantity of deciduous fruit used for juice fell 32 percent from 1987, and its share dropped to 13 percent from 19 percent in 1987.

The larger California grape crop and reduced wine inventories resulted in more crushing for wine, and in turn, crushing accounted for almost 31 percent of all noncitrus used for processing in 1988, up from 27 percent in calendar 1987. Noncitrus crops used for freezing in 1988 remained virtually the same as the previous year, so freezing's share of processing use remained at 3 percent.

Noncitrus Exports Strong, But Citrus Exports Mixed

Exports of major fresh deciduous fruit such as apples, grapes, and pears increased significantly in calendar 1988 from a year earlier. Exports of fresh apples and pears were up 38 and 33 percent, respectively—the second highest on record for both. Grapes were up 24 percent to a record high. The increases were generally attributed to larger supplies, lower prices, the weak dollar, and continued marketing promotion and development.

Exports of major fresh citrus fruit did not fare as well. Exports of fresh oranges and lemons were off 16 and 8 percent, respectively, as higher prices weakened foreign demand for both. In addition, limited supplies of large fruit from the 1987/88 California valencia crop hindered exports. In contrast, exports of fresh grapefruit rose 33 percent from 1987. The weak dollar and increased promotion under the Targeted Export Assistance program (TEA) contributed to strong sales abroad.

Fresh Noncitrus Imports Mixed, But Orange Juice Imports Fell

U.S. imports of most major fresh noncitrus fruit were mixed in 1988. Imports of fresh apples and bananas were off 8 and 2 percent from 1987, respectively. Sharply reduced apple shipments from France, New Zealand, and South Africa were chiefly responsible. After the U.S. Government lifted the restriction on U.S. plant quarantines of French apples, French authorities decided not to ship any apples to the United States for the balance of the 1987/88 marketing season. The October 1986 trade embargo with South Africa was still in effect in 1988, ruling out apple imports from that country.

Reduced banana imports were caused by the discovery of scarab beetles and crickets in Colombia's banana plantations, and the consequent rejection of infested Colombian bananas by USDA's Animal and Plant Health Inspection Service. In addition, a labor strike that completely shut off Colombian banana production in late summer 1988 further reduced U.S. banana imports.

In contrast, imports of grapes and fresh pineapple in 1988 were record-breakers. Grape imports, mostly from Chile, were up 24 percent from 1987 as Chile continued to expand its grape industry. Consequently, larger quantities of fresh grapes are being shipped to the United States during the off-

season. Imports of fresh noncitrus fruit are expected to continue rising because of increased world production (particularly in Latin America), third world countries' urgent need for hard currencies, and subsidized production and exports in several countries.

After the freezes damaged Florida citrus in the early 1980's, imports of FCOJ (mostly from Brazil) reached a record 597 million gallons in 1984/85. However, following the gradual recovery, the increased pack of FCOJ in Florida reduced imports to 408 million gallons in 1987/88, down 24 percent from 1986/87. Nevertheless, FCOJ imports will remain relatively large because Florida orange production is not expected to reach prefreeze levels for several years.

Fruit Consumption Down Slightly From 1987 Record

Per capita fruit consumption was estimated at 211.3 pounds (fresh weight equivalent) in 1988, down slightly from the previous year's record 214.3 pounds. The decline is the result of a smaller fruit crop. Most of the decrease was attributed to fresh fruit consumption, which declined moderately to 96.9 pounds, primarily reflecting reduced consumption of apples, avocados, bananas, and pears. Fresh citrus consumption remained steady. Per capita consumption of fresh noncitrus fruit totaled 70.4 pounds, down almost 5 pounds from 1987. Substantially higher prices of apples and bananas were chiefly responsible. Per capita fresh citrus consumption amounted to 26.5 pounds, up from 26.4 in 1987. Consumption for all citrus items remained relatively steady.

Per capita consumption of processed fruit (fresh weight equivalent) rose from 112.8 pounds in 1987 to 114.4 in 1988. Processed citrus consumption rose from 86.4 pounds to 87.1. Most of the increase was attributed to chilled orange juice which jumped from 4.2 pounds in 1987 to 4.8 in 1988. Per capita consumption of processed noncitrus fruit rose from 26.4 pounds in 1987 to 27.3 in 1988. The increase was shared by all processed items except frozen fruit.

Tree Nuts

Bearing Acreage Down Slightly

Bearing area of domestic tree nuts in 1988, excluding pecans, decreased 1 percent from 1987 to 668,200 acres. Almond bearing area fell 10,000 acres to 407,000. Walnuts, at 174,000 acres, fell 2,000 from the previous year. Acreages of hazelnuts, pistachios, and macadamias all increased moderately. No acreage of pecans is reported. Almond acreage is expected to drop an additional 5,000 acres in 1989, but walnuts will be virtually unchanged. Other tree nut acreages are expected to continue increasing.

Production and Value Fell

Production of the six domestic tree nuts decreased to 898,200 short tons, in-shell basis, 6 percent below the 1987

record. Almond, hazelnut, and walnut production declined in 1988, but production of pecans, pistachios, and macadamias increased.

Utilized production for all six domestic tree nuts was valued at \$1.12 billion (grower receipts), down 2 percent from the record \$1.13 billion in 1987. Grower prices in 1988 were lower for hazelnuts, pistachios, and walnuts but higher for almonds, pecans, and macadamias.

Record Consumption

Tree nut consumption reached a record 2.51 pounds per capita in 1988. Total consumption of all tree nuts (domestic and imported) hit a record 622 million pounds, shelled basis, up 12 percent from 1987. Consumer demand appears to be

trending upward again after reaching 2 pounds per capita in the early 1980's and then leveling off at 2.25 to 2.35 pounds in the mid-1980's.

Exports and Imports Up

Exports of all tree nuts reached a record 440 million pounds, shelled basis, up 9 percent from 1987 and 12 percent above 1986. Imports were also very high at 156 million pounds, 11 percent more than in 1987. Carryover stocks into the 1989/90 marketing year are also expected to be very high, primarily due to larger almond stocks held in market reserve from the 1988 crop. However, combined production of the major tree nuts in 1989 is expected to be lower, which will bring supply in balance with domestic and export demand. Prices are expected to be mostly higher in the 1989/90 season.

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Table 1--Fruits and tree nuts bearing acreage, United States, 1970 to date

Year	Citrus fruit 1/	Major deciduous fruits 2/	Miscellaneous noncitrus 3/	Tree nuts 4/	Total 5/
--1,000 acres--					
1970	1,143.8	1,575.6	186.1	343.5	3,249.0
1971	1,193.8	1,547.0	186.1	365.7	3,292.6
1972	1,186.0	1,530.4	182.6	384.0	3,283.0
1973	1,201.6	1,534.3	183.4	398.9	3,318.2
1974	1,211.7	1,563.0	185.8	421.7	3,382.2
1975	1,215.7	1,596.9	191.3	443.0	3,446.9
1976	1,198.0	1,664.8	194.5	456.4	3,513.7
1977	1,180.2	1,674.2	198.4	482.9	3,535.7
1978	1,161.2	1,657.3	227.2	519.4	3,565.1
1979	1,149.5	1,627.7	236.3	555.9	3,569.4
1980	1,161.8	1,629.7	248.2	565.7	3,605.4
1981	1,148.0	1,612.1	255.0	561.4	3,576.5
1982	1,132.0	1,642.0	227.7	579.4	3,581.1
1983	1,100.4	1,676.5	235.3	596.0	3,608.2
1984	1,002.6	1,710.7	208.9	622.9	3,545.1
1985	899.2	1,735.4	211.1	656.9	3,502.6
1986	819.0	1,742.6	214.5	668.9	3,445.0
1987	824.9	1,752.0	215.9	675.4	3,468.2
1988 6/	832.4	1,743.3	213.9	668.2	3,457.8

1/ Grapefruit, lemons, limes, oranges, tangelos, tangerines and templets. Acreage is for the year of harvest. 2/ Commercial apples, apricots, cherries, grapes, nectarines, peaches, pears, plums, and prunes. 3/ Avocados, bananas, berries (until 1979), cranberries, (beginning 1983), dates, figs, guavas, kiwifruit (beginning 1980), olives, papayas, pineapples, and pomegranates. 4/ Almonds, filberts (hazel[nuts]), Macadamia nuts, walnuts, and pistachios (beginning 1977). 5/ Some figures may not add due to rounding. 6/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 2--Utilized production of citrus and noncitrus fruit, United States, 1970 to date

Year	Citrus 1/	Noncitrus	Total
--1,000 short tons--			
1970	11,348	9,890	21,238
1971	11,919	10,535	22,454
1972	12,163	8,436	20,599
1973	13,894	10,965	24,859
1974	13,412	11,937	25,349
1975	14,586	12,384	26,970
1976	14,788	11,846	26,634
1977	15,242	12,274	27,516
1978	14,255	12,460	26,715
1979	13,329	13,689	27,018
1980	16,484	15,153	31,637
1981	15,105	12,961	28,066
1982	12,057	14,217	26,274
1983	13,608	13,707	27,315
1984	10,792	13,796	24,588
1985	10,525	13,680	24,205
1986	11,051	13,408	24,459
1987	11,968	15,454	27,422
1988 2/	12,728	15,259	27,987

1/ Year harvest was complete.

2/ Preliminary.

Sources: Citrus Fruits Summary, Noncitrus Fruit and Nuts Midyear Supplement, and July 1988 Crop Production, NASS, USDA.

Table 3--Fruit, total production, United States, 1970 to date 1/

Year	Apples	Peaches	Pears	Grapes	Cherries	Prunes and plums	Apricots	Figs	Oranges 2/	Tangerines 2/	Grapefruit 2/	Lemons 2/	Limes 2/	
--1,000 short tons--														
1970	3,199	1,498	549	3,103	246	787	175	50	8,023	189	2,186	574	29	
1971	3,187	1,441	749	3,994	280	582	186	46	8,205	234	2,473	625	35	
1972	2,939	1,486	612	2,579	252	359	128	36	8,237	220	2,627	634	44	
1973	3,133	1,295	730	4,198	246	783	158	42	9,737	223	2,676	844	44	
1974	3,290	1,459	742	4,199	279	659	94	45	9,386	210	2,692	1,118	42	
1975	3,765	1,488	748	4,366	301	656	183	38	10,241	228	2,504	1,670	44	
1976	3,236	1,509	739	4,398	246	666	155	32	10,493	236	2,850	1,670	43	
1977	3,370	1,478	782	4,298	254	727	147	42	10,546	249	3,032	988	40	
1978	3,799	1,326	723	4,567	247	634	126	32	9,546	228	3,030	991	18	
1979	4,063	1,469	855	4,989	269	661	144	39	9,160	237	2,756	745	29	
1980	5,509	1,534	897	5,595	364	821	129	45	11,832	275	2,986	789	44	
1981	3,870	1,385	897	4,458	221	765	89	38	10,487	239	2,759	1,189	48	
1982	4,061	1,143	804	6,555	312	573	118	38	7,600	212	2,878	1,942	52	
1983	4,189	928	775	5,506	259	674	94	34	9,519	229	2,447	963	68	
1984	4,167	1,330	710	5,194	318	687	127	36	7,246	208	2,176	807	63	
1985	3,961	1,074	747	5,607	276	648	132	33	6,734	176	2,255	980	72	
1986	3,967	1,164	766	5,226	250	491	55	50	7,487	186	2,539	697	76	
1987	5,374	1,196	940	5,264	395	977	115	52	7,697	220	2,568	1,087	63	
1988	4,579	1,310	861	5,986	304	750	102	48	8,544	212	2,781	1,785	57	
--1,000 short tons--														
Tangerines 2/	Temples 2/	Strawberries	Pineapples	Avocados 3/	Nectarines	Cranberries	Bananas	Kiwifruit 4/	Dates	Papayas	Pomegranates	Total fruit 4/		
1970	113	234	248	954	86	67	102	3	N.A.	18	12	8	22,453	
1971	122	225	260	942	45	70	113	3	N.A.	20	10	9	23,856	
1972	162	239	230	947	89	87	104	3	N.A.	16	13	7	21,750	
1973	140	230	240	810	74	87	105	4	N.A.	23	16	6	25,844	
1974	167	239	269	700	127	117	112	3	N.A.	23	19	8	25,557	
1975	212	239	275	680	87	111	104	3	N.A.	25	20	9	27,415	
1976	248	248	290	690	141	128	120	3	N.A.	22	25	9	27,287	
1977	216	171	331	118	155	115	105	3	N.A.	25	32	10	27,809	
1978	221	330	675	146	148	123	123	3	N.A.	22	45	10	27,211	
1979	189	212	319	681	102	172	124	3	N.A.	21	30	13	27,283	
1980	288	270	351	657	269	191	135	2	5	22	37	17	33,064	
1981	221	162	371	636	183	182	130	3	7	22	47	17	28,426	
1982	229	144	442	670	237	178	152	3	16	24	42	16	27,441	
1983	171	447	722	274	185	149	149	2	14	17	38	20	27,935	
1984	162	130	495	600	230	183	166	5	18	22	60	20	25,160	
1985	162	146	509	565	189	210	174	4	22	29	48	19	24,772	
1986	133	133	510	646	303	191	182	5	24	18	31	22	24,933	
1987	180	153	556	692	209	166	6	6	29	19	34	19	28,201	
1988	189	160	583	659	183	200	201	7	33	22	35	20	28,611	

N.A. = not available.

1/ Total production includes unharvested production and fruit harvested but not sold due to marketing conditions.

2/ Year harvest was complete.

3/ Year of bloom.

4/ Estimate beginning 1980.

Sources: Noncitrus Fruit and Nuts Midyear Supplement, Citrus Fruit Summary, and Vegetables, MASS., USDA.

Table 4--Average price indexes for fruits, United States, 1970 to date

Year	Index of all fruit prices received by growers	Producer price index				Consumer price index	
		Fresh fruit	Dried fruit	Canned fruits and juices	Frozen fruits and juices	Fresh fruit	Processed fruit
(1977=100)							
1970	59	42.3	29.3	37.5	39.8	35.6	38.4
1971	67	48.0	29.6	41.7	40.7	37.8	40.6
1972	72	48.2	34.9	43.4	43.8	39.8	41.8
1973	84	57.2	45.6	47.2	44.9	44.6	43.5
1974	86	60.8	50.1	56.3	47.1	48.5	50.3
1975	85	66.6	47.1	61.2	51.2	51.8	59.7
1976	80	67.4	53.8	61.5	50.9	51.7	59.3
1977	100	74.9	71.4	67.1	64.4	59.4	62.2
1978	137	90.1	78.2	75.3	81.3	79.8	68.9
1979	144	98.2	117.0	84.6	81.3	77.0	82.0
1980	124	100.3	97.4	90.3	79.9	84.8	82.1
1981	130	96.6	99.1	96.6	100.0	89.4	91.7
1982	175	100.0	100.0	100.0	100.0	99.3	96.7
1983	128	106.4	100.0	101.0	98.7	95.1	98.1
1984	202	106.8	94.4	110.1	114.8	105.6	105.2
1985	180	108.1	88.7	113.8	118.5	116.3	109.5
1986	169	112.9	91.9	111.0	103.0	118.7	106.3
1987	181	112.0	95.0	115.4	113.3	132.0	110.6
1988	181	112.8	98.9	120.3	130.0	143.0	121.9

Sources: Agricultural Prices, NASS, USDA and Bureau of Labor Statistics, Department of Labor.

Table 5--Annual retail prices for selected fruits, United States, 1980 to date

Year	Red delicious apples	Bananas	Anjou pears	Thompson seedless grapes	Oranges		
					Oranges	Navel	Valencias
--Dollars/pound--							
1980	0.629	0.342	0.609	1.064	0.702	0.354	0.365
1981	0.565	0.362	0.590	1.143	0.700	0.395	0.391
1982	0.639	0.354	0.606	1.014	0.771	0.354	0.433
1983	0.590	0.386	0.619	1.071	0.748	0.365	0.384
1984	0.657	0.359	0.541	1.100	0.752	0.398	0.425
1985	0.685	0.367	0.703	0.945	0.929	0.471	0.533
1986	0.773	0.385	0.768	1.140	0.821	0.509	0.481
1987	0.728	0.365	0.745	1.173	0.897	0.518	0.543
1988	0.729	0.418	0.628	1.163	0.933	0.517	0.528

Source: Bureau of Labor Statistics, Department of Labor.

Table 6--Bearing acreage for selected noncitrus fruit, United States, 1970 to date

Year	Cherries							
	Apples	Avocados	Sweet	Tart	Grapes 1/	Nectarines	Peaches	Pears
	--1,000 acres--							
1970	402.5	23.7	52.4	59.3	535.5	7.8	248.8	94.8
1971	402.2	24.4	52.2	56.1	535.1	8.5	233.6	94.8
1972	405.2	25.2	52.6	54.2	531.1	9.9	221.7	94.3
1973	399.1	26.8	53.2	52.9	548.8	10.8	220.3	92.6
1974	396.0	30.0	54.4	51.6	584.9	11.0	220.0	90.7
1975	395.6	32.9	54.1	49.7	626.4	12.1	217.6	89.8
1976	403.2	38.2	52.1	45.0	701.4	13.4	215.3	88.6
1977	403.4	44.5	51.4	42.9	724.2	14.7	204.1	87.1
1978	404.3	51.2	49.6	40.8	720.2	14.8	198.0	85.0
1979	407.6	59.4	48.3	40.8	696.5	16.2	193.9	82.7
1980	412.2	67.1	47.0	42.0	698.6	18.4	194.2	81.0
1981	414.9	73.0	45.9	40.8	694.4	21.0	188.3	76.1
1982	419.4	78.0	45.1	40.3	718.8	22.2	189.8	74.5
1983	424.1	83.1	44.7	41.8	747.5	23.1	189.7	70.5
1984	429.4	84.0	43.6	48.3	770.4	24.5	194.7	68.4
1985	436.7	85.2	44.3	46.7	782.6	22.4	193.4	68.4
1986	453.0	86.3	45.3	48.9	770.7	22.8	191.1	68.0
1987	461.4	86.1	46.1	50.0	763.7	23.6	189.5	69.6
1988	466.2	85.4	47.1	49.2	755.2	24.2	185.7	70.0

1/ In 1986: 50,000 acres of raisin type grapes were enrolled in the California Raisin Industry Diversion Program; in 1987, 15,000 acres; and in 1988, 25,000 acres were enrolled.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 7--Utilization of production of noncitrus fruits, and value, United States, 1970 to date

Year	Utilized production 1/	Fresh	Processed						Value of utilized production
			Canned	Dried	Juice	Frozen	Wine	Other	
			--1,000 short tons (fresh equivalent)--						
1970	9,890	3,378	2,030	1,634	708	221	1,583	238	1,062,354
1971	10,535	3,421	2,003	1,431	877	240	2,310	192	1,159,402
1972	8,436	3,114	1,805	804	720	244	1,520	169	1,320,084
1973	10,965	3,403	2,071	1,795	598	254	2,567	196	1,948,531
1974	11,937	4,270	2,251	1,655	768	223	2,416	279	1,987,805
1975	12,384	4,734	2,056	1,920	863	251	2,276	205	1,919,399
1976	11,846	4,564	1,942	1,661	818	254	2,322	208	2,081,819
1977	12,274	4,531	2,060	1,870	841	244	2,412	258	2,533,727
1978	12,460	4,167	2,549	1,365	1,140	257	2,672	311	3,034,322
1979	13,689	4,358	2,758	2,044	1,285	226	2,713	305	3,404,222
1980	15,153	5,010	2,747	2,408	1,418	251	2,996	322	3,491,419
1981	12,961	4,709	2,263	1,722	1,235	231	2,522	280	3,586,740
1982	14,217	4,696	2,332	2,163	1,255	227	3,227	317	3,482,072
1983	13,707	4,805	2,123	2,481	1,445	185	2,423	245	3,215,233
1984	13,796	4,979	2,272	2,060	1,322	245	2,693	225	3,316,540
1985	13,680	4,600	2,724	2,192	1,220	263	2,919	212	3,418,919
1986	13,408	4,941	2,209	1,668	1,138	286	2,908	259	3,710,611
1987	15,454	5,575	2,357	2,367	1,888	306	2,648	314	3,871,028
1988 2/	15,259	5,436	2,504	2,551	1,284	313	2,995	177	4,420,251

1/ Some figures may not add due to rounding.

2/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 8--Fruits, frozen: Commercial pack, United States, 1970 to date

Year	Apples	Apricots	Cherries tart	Cherries sweet	Grape and pulp	Peaches	Plums and prunes	Purees, noncitrus 1/
-- 1,000 pounds --								
1970	100,370	12,107	121,271	4,124	5,185	47,471	8,269	15,170
1971	96,999	10,977	159,408	2,568	5,761	59,924	3,666	16,331
1972	130,377	15,512	145,570	3,266	5,333	46,316	5,075	10,582
1973	135,086	16,534	109,368	5,209	4,145	81,388	6,121	12,228
1974	99,180	11,848	137,976	8,890	2,897	59,058	6,315	5,311
1975	89,704	15,886	126,073	6,712	(4)	40,273	5,236	5,983
1976	118,759	15,008	84,113	12,386	1,723	65,101	4,977	16,171
1977	97,204	15,749	154,600	13,011	4,892	69,323	3,594	16,833
1978	68,337	11,814	126,300	18,362	4,529	40,814	2,774	16,338
1979	60,827	16,941	116,300	13,262	2,264	62,510	5,649	12,251
1980	69,109	10,409	129,009	10,776	2,178	56,274	6,195	8,913
1981	105,893	13,606	85,848	14,209	2,901	59,612	4,348	16,128
1982	100,378	16,766	(3)	17,206	8,442	56,714	5,631	20,268
1983	75,576	14,077	(3)	17,303	10,006	56,454	2,646	16,169
1984	77,996	16,565	(3)	13,282	(4)	75,877	3,436	15,645
1985	85,481	11,770	(3)	10,262	4,715	80,990	4,400	24,655
1986	111,133	14,308	(3)	14,404	(4)	100,730	4,354	29,424
1987	122,399	22,227	(3)	21,332	(4)	105,764	657	39,769
1988	117,076	14,675	(3)	18,482	(4)	110,286	2,713	22,501
-- 1,000 pounds --								
	Black- berries	Blue- berries	Boysen- berries	Logan- berries	Rasp- berries	Straw berries	Miscellaneous fruit and berries 2/	Total
1970	29,186	21,836	8,478	1,756	29,504	201,572	14,389	620,688
1971	27,536	30,441	6,245	1,858	28,102	199,399	16,263	665,478
1972	21,164	30,932	6,203	1,517	24,361	146,842	19,012	612,062
1973	8,249	44,376	6,275	852	29,309	168,552	22,472	650,164
1974	21,107	24,393	5,093	1,877	22,107	170,371	25,681	602,104
1975	20,892	24,572	4,815	2,954	26,652	183,895	13,178	566,825
1976	22,774	26,261	4,094	2,371	22,561	216,153	16,061	628,513
1977	23,352	14,750	3,836	3,427	24,988	220,391	21,459	687,409
1978	19,579	27,992	3,048	2,089	21,195	159,834	19,561	542,566
1979	14,823	31,485	2,732	1,276	23,518	190,572	20,454	574,864
1980	20,874	36,426	4,678	1,905	21,426	253,072	22,158	653,402
1981	16,997	50,141	3,627	1,552	26,179	210,558	17,324	628,923
1982	16,283	46,464	5,101	1,665	26,717	272,676	20,004	614,315
1983	14,581	43,528	3,549	2,223	19,855	292,662	5,640	574,269
1984	11,130	54,835	3,524	1,018	19,659	231,414	37,839	562,220
1985	12,681	54,506	2,561	775	14,784	229,152	16,148	552,880
1986	12,955	77,754	5,493	1,133	15,323	237,604	22,960	647,575
1987	21,027	69,153	5,234	1,016	26,471	334,406	80,727	850,162
1988	21,437	82,382	6,706	1,461	26,509	274,610	130,908	829,746

1/ Includes purees of apples, apricots, bananas, blackberries, black and red raspberries, boysenberries, cherries, elderberries, loganberries, nectarines, peaches, plums, strawberries, cantaloupes, grapes, melons, blueberries, caneberries, guava, kiwi, marionberries, passionfruit, prunes, and pears. 2/ Includes cranberries, gooseberries, marionberries, melon balls, mixed fruit, Montmorency cherries, chelalems, elderberries, gooseberries, Morello cherries, grape and pulp (1975 and 1984 only), pears, ollalieberries, cantaloupes, crabapples, pineapples, guava, currants, lemons, oranges, melons, kiwi and passionfruit. 3/ Due to lack of cooperation, tart cherries have been removed from prior years; however, in 1987 and 1988 they are included in miscellaneous fruit and berries. 4/ Included in miscellaneous fruits and berries.

Source: American Frozen Food Institute.

Table 9--Fruit, dried: Production (dry basis), United States, 1970 to date

Year	Apples	Apricots	Dates	Figs	Peaches	Pears 1/	Prunes	Raisins	Total
--Tons--									
1970	11,850	5,600	18,200	12,280	2,275	585	200,000	193,000	443,790
1971	6,000	4,000	19,500	10,370	1,860	750	131,000	194,100	367,580
1972	9,300	3,000	15,700	8,950	1,500	960	77,000	105,000	221,410
1973	15,500	3,260	23,100	11,220	1,500	790	205,000	224,000	484,370
1974	12,300	2,640	22,700	11,430	1,750	700	142,000	241,500	435,020
1975	14,350	4,500	24,800	8,840	2,375	980	149,000	283,000	487,845
1976	14,350	4,650	22,400	7,000	2,500	1,270	148,000	218,000	418,170
1977	14,100	5,100	25,400	11,000	2,500	1,130	159,000	248,300	466,530
1978	13,800	3,600	21,550	6,390	2,000	855	132,000	228,500	408,695
1979	16,000	5,300	21,300	10,240	1,800	1,530	136,000	302,300	494,470
1980	12,150	3,600	22,400	11,400	2,200	1,500	168,000	309,000	530,250
1981	11,900	3,800	22,300	10,150	2,050	1,440	159,500	256,000	467,140
1982	13,100	4,800	23,900	9,650	2,600	1,200	126,000	292,000	473,250
1983	17,700	4,100	17,000	9,000	2,000	1,070	145,000	39,600	235,470
1984	18,050	3,520	22,200	9,800	1,550	780	148,000	334,500	538,400
1985	15,150	2,000	28,900	8,570	2,050	1,310	141,000	346,000	544,980
1986	12,450	1,400	17,800	12,450	1,800	1,410	99,000	277,000	423,310
1987	17,750	2,980	19,400	14,000	1,950	1,130	229,000	356,000	642,210
1988 2/	17,800	2,640	22,000	13,250	2,500	1,220	155,000	363,000	577,410

1/ Bartlett only.

2/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 10--Apples: Production, utilization, and season-average grower price, United States, 1970 to date 1/

Year	Production		Utilization		Grower price		
	Total 2/	Utilized	Fresh	Processing	Fresh	Processing	All
--Million pounds--							
1970	6,397.7	6,258.4	3,531.5	2,726.9	6.53	39.20	4.54
1971	6,373.2	6,082.7	3,483.9	2,598.8	6.97	43.40	4.92
1972	5,878.8	5,867.5	3,342.0	2,525.5	8.92	62.80	6.43
1973	6,265.0	6,251.5	3,539.4	2,712.1	10.70	125.00	8.80
1974	6,579.7	6,529.8	3,690.5	2,839.3	11.10	96.1	8.40
1975	7,530.0	7,102.6	4,357.0	2,745.6	8.80	56.80	6.50
1976	6,472.2	6,466.9	3,915.8	2,551.1	11.50	108.00	9.10
1977	6,739.6	6,710.0	3,859.6	2,850.4	13.80	122.00	10.60
1978	7,596.9	7,564.0	4,210.4	3,333.6	13.90	117.00	10.40
1979	8,126.1	8,101.2	4,288.6	3,812.6	15.40	114.00	10.90
1980	8,818.4	8,800.4	4,934.1	3,866.3	12.10	84.00	8.70
1981	7,739.6	7,692.9	4,442.2	3,250.7	15.40	102.00	11.10
1982	8,122.0	8,110.2	4,536.7	3,573.5	13.20	118.00	10.00
1983	8,378.5	8,357.9	4,620.5	3,737.4	14.80	103.00	10.50
1984	8,333.0	8,318.1	4,666.1	3,652.0	15.50	111.00	11.20
1985	7,923.5	7,835.8	4,227.7	3,608.1	17.30	103.00	11.70
1986	7,933.0	7,907.3	4,531.8	3,375.5	19.10	116.00	13.40
1987	10,748.6	10,451.8	5,631.6	4,820.2	12.70	79.30	8.70
1988 3/	9,157.5	9,107.9	5,263.3	3,844.6	17.20	123.00	12.60

1/ Commercial crop in orchards of 100 or more bearing trees.

2/ Includes unharvested and harvested not sold.

3/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 11--Apples: Processed utilization and season-average grower prices, United States, 1970 to date 1/

Year	Canned			Juice and cider			Frozen			Dried			Other 2/		
	Quantity	Price	Quantity	Price	Quantity	Price	Quantity	Price	Quantity	Price	Quantity	Price	Quantity	Price	
1970	1,158.5	47.90	1,031.7	27.90	203.0	53.40	189.8	33.20	143.9	37.30	131.6	37.50	143.9	37.30	
1971	1,093.5	49.40	1,087.0	36.10	190.5	52.20	96.2	45.40	131.6	37.50	136.1	42.00	127.6	103.00	
1972	976.9	67.40	1,028.6	55.70	235.3	76.00	148.6	68.60	104.1	204.1	127.6	103.00	197.2	64.80	
1973	1,255.4	131.00	822.2	98.20	259.2	171.00	267.7	197.2	99.70	204.1	136.1	103.00	229.5	64.80	
1974	1,222.6	127.00	1,030.7	64.50	181.7	121.00	197.2	104.00	127.6	103.00	136.1	103.00	229.5	64.80	
1975	1,026.7	57.50	1,191.6	52.60	206.6	143.00	229.5	65.50	105.00	72.4	114.00	114.00	229.5	64.80	
1976	919.9	120.00	1,109.1	91.60	220.4	143.00	229.5	65.50	105.00	72.4	114.00	114.00	229.5	64.80	
1977	1,075.9	133.00	1,267.2	109.60	160.9	138.00	225.5	132.00	120.9	120.9	112.00	112.00	225.5	132.00	
1978	1,224.2	119.00	1,494.6	110.00	207.4	126.00	221.0	154.00	186.4	115.00	115.00	115.00	221.0	154.00	
1979	1,336.7	125.00	1,953.8	103.00	136.6	133.00	255.7	135.00	129.8	110.00	110.00	110.00	255.7	129.8	
1980	1,202.4	97.40	2,136.9	73.70	167.5	112.00	194.7	78.70	164.8	91.00	91.00	91.00	194.7	91.00	
1981	1,002.4	121.00	1,798.4	87.90	172.7	160.00	190.0	77.10	109.2	109.00	109.00	109.00	190.0	87.2	
1982	1,248.6	132.00	1,807.8	103.00	190.8	143.00	209.9	132.00	116.4	122.00	122.00	122.00	209.9	116.4	
1983	1,204.4	117.00	1,984.7	89.00	169.6	161.00	283.3	106.00	95.4	111.00	111.00	111.00	283.3	95.4	
1984	1,176.7	137.00	1,886.3	88.00	198.1	151.00	288.6	123.00	102.3	133.00	133.00	133.00	288.6	102.3	
1985	1,251.4	132.00	1,842.1	75.00	194.3	139.00	242.4	123.00	75.9	117.00	117.00	117.00	242.4	75.9	
1986	1,179.0	132.00	1,648.9	96.00	257.3	150.00	199.4	123.00	90.9	125.00	125.00	125.00	199.4	90.9	
1987	1,289.6	118.00	2,924.8	57.90	248.8	132.00	283.8	67.70	73.2	100.00	100.00	100.00	283.8	67.70	
1988 3/	1,399.1	152.00	1,818.1	96.70	275.7	164.00	285.0	104.00	66.7	131.00	131.00	131.00	285.0	66.7	

1/ Commercial crop.

2/ Includes vinegar, wine, jam, fresh slices for pie making.

3/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 12--Fresh apples: Supply and utilization, 1970 to date

Season 1/	Supply			Utilization			Consumption		
	Production	Imports	Total supply	Exports	Shipments	Total	Per capita pounds		
1970/71	3,531.5	95.6	3,627.1	104.5	11.0	3,511.6	17.01		
1971/72	3,483.9	79.1	3,553.0	119.5	14.3	3,429.2	16.41		
1972/73	3,342.9	103.3	3,446.2	149.5	19.3	3,277.1	15.53		
1973/74	3,539.4	89.3	3,628.7	166.9	13.3	3,448.5	16.20		
1974/75	3,690.5	80.8	3,771.3	231.3	11.4	3,528.6	16.42		
1975/76	4,357.0	118.4	4,475.4	242.0	9.4	4,224.0	19.46		
1976/77	3,915.8	102.8	4,018.6	300.2	7.4	3,711.0	16.93		
1977/78	3,859.6	132.0	3,991.6	316.8	8.5	3,666.3	16.55		
1978/79	4,210.4	157.2	4,368.0	324.7	13.1	4,030.2	18.00		
1979/80	4,288.6	152.1	4,440.7	522.8	14.8	3,905.1	17.24		
1980/81	4,934.1	180.1	5,114.2	692.3	18.6	4,403.3	19.23		
1981/82	4,442.2	157.1	4,599.3	598.5	14.4	3,986.4	17.23		
1982/83	4,536.7	190.5	4,727.2	585.5	12.6	4,129.1	17.67		
1983/84	4,619.8	237.0	4,856.8	500.5	9.5	4,346.8	18.42		
1984/85	4,666.1	257.2	4,923.3	461.5	9.9	4,451.9	18.69		
1985/86	4,227.7	302.2	4,529.3	317.9	9.9	4,205.1	17.47		
1986/87	4,531.8	303.8	4,835.6	381.9	14.1	4,439.6	18.28		
1987/88	5,631.6	264.3	5,895.9	667.5	10.3	5,218.1	21.28		

1/ Season beginning August 1.

Source: Commodity Economics Division, ERS, USDA.

Table 13--Avocados: Production, season-average grower price, and value, by States, 1970 to date

Season 1/	California			Florida			United States		
	Production	Price	Value	Production	Price	Value	Production	Price	Value
	Short ton	Dollars/ ton	1,000 dollars	Short ton	Dollars/ ton	1,000 dollars	Short ton	Dollars/ ton	1,000 dollars
1970	67,000	376.00	25,192	18,800	290.00	5,452	85,800	357.00	30,644
1971	26,100	952.00	24,847	19,300	338.00	6,523	45,400	691.00	31,370
1972	70,500	546.00	38,493	18,800	321.00	6,035	89,300	499.00	44,528
1973	53,400	793.00	42,346	20,300	355.00	7,207	73,700	672.00	49,553
1974	105,500	475.00	50,113	21,900	327.00	7,161	127,400	450.00	57,274
1975	58,400	1,037.00	60,561	29,000	400.00	11,600	87,400	826.00	72,161
1976	120,000	593.00	71,160	21,100	410.00	8,651	141,100	566.00	79,811
1977	107,000	740.00	79,180	10,700	690.00	7,383	117,700	735.00	86,563
1978	123,000	691.00	84,993	23,100	400.00	9,240	146,100	645.00	94,233
1979	75,000	1,496.00	112,200	27,300	597.00	16,298	102,300	1,256.00	128,498
1980	238,000	357.00	84,966	30,800	529.00	16,293	268,800	377.00	101,259
1981	157,000	689.00	108,173	25,800	501.00	12,926	182,800	662.00	121,099
1982	202,000	460.00	92,920	34,700	480.00	16,656	236,700	463.00	109,576
1983	247,000	370.00	91,390	27,000	460.00	12,420	274,000	379.00	103,810
1984	200,000	582.00	116,400	29,500	390.00	11,505	229,500	557.00	127,905
1985	160,000	1,000.00	160,000	28,500	576.00	16,416	188,500	936.00	176,416
1986	278,000	338.00	93,964	24,700	412.00	10,176	302,700	344.00	104,140
1987	180,000	1,140.00	205,200	29,000	312.00	9,048	209,000	1,030.00	214,248
1988 2/	156,000	1,200.00	187,200	27,000	436.00	11,772	183,000	1,090.00	198,972

1/ Season beginning November 1 to November 30 (following year) for California and June 20 to February 28 for Florida.

2/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 14--Cherries, sweet: Production, utilization, and season-average grower price, United States, 1970 to date

Year	Production		Utilization		Grower price		
	Total	Utilized	Fresh	Processing	Fresh	Processing	All
	--Short ton--		--Dollars/ton--				
1970	122,260	121,530	48,292	73,238	475.00	276.00	355.00
1971	141,290	139,990	68,627	71,363	409.00	224.00	315.00
1972	96,050	95,840	41,668	54,172	589.00	223.00	382.00
1973	158,630	154,630	82,839	71,791	412.00	296.00	358.00
1974	146,980	146,980	67,516	79,464	538.00	350.00	436.00
1975	155,710	155,710	77,300	78,410	540.00	296.00	407.00
1976	172,310	167,080	94,510	72,570	417.00	323.00	384.00
1977	148,920	148,420	72,320	76,100	594.00	399.00	495.00
1978	156,780	156,780	66,670	90,110	867.00	555.00	688.00
1979	184,180	184,030	86,030	98,000	713.00	509.00	604.00
1980	173,700	168,300	86,460	81,840	723.00	375.00	554.00
1981	154,540	147,520	71,738	75,782	936.00	447.00	685.00
1982	156,600	134,610	67,610	67,000	968.00	427.00	699.00
1983	181,200	168,765	95,090	73,675	785.00	430.00	630.00
1984	181,800	164,250	90,490	73,760	799.00	377.00	609.00
1985	132,500	126,500	53,040	73,460	1,192.00	515.00	799.00
1986	137,710	136,760	68,620	68,140	1,090.00	553.00	825.00
1987	214,800	212,820	108,330	104,490	952.00	536.00	748.00
1988 1/	186,200	184,510	87,520	96,990	1,100.00	509.00	788.00

1/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 15--Cherries, tart: Production, utilization, and season-average grower price, United States, 1970 to date

Year	Production		Utilization		Grower price		
	Total	Utilized	Fresh	Processing	Fresh	Processing	All
--Million pounds--							
1970	248.8	235.8	10.0	225.8	11.6	7.4	7.6
1971	277.3	276.0	8.8	267.3	11.2	9.7	9.8
1972	311.8	268.6	6.3	262.3	12.0	8.1	8.2
1973	174.6	173.4	5.4	168.0	17.1	19.1	19.0
1974	264.9	264.6	4.4	260.2	20.4	18.5	18.5
1975	290.5	246.1	7.2	238.9	17.8	10.1	10.2
1976	146.6	146.6	6.0	140.6	24.3	25.1	25.1
1977	210.9	210.9	6.1	204.8	28.8	29.4	29.4
1978	181.2	181.2	5.0	176.2	38.6	43.9	43.8
1979	170.4	170.4	4.3	166.1	39.4	47.5	47.2
1980	218.1	216.2	6.3	209.9	29.5	19.9	20.2
1981	133.2	132.8	4.0	128.8	42.7	44.5	44.5
1982	310.9	244.9	7.4	237.5	27.6	13.7	14.1
1983	154.6	153.6	5.3	148.3	48.5	46.5	46.6
1984	271.6	255.9	7.9	248.0	44.2	24.4	25.0
1985	286.2	280.2	7.6	272.6	33.4	22.1	22.4
1986	224.1	218.4	5.5	212.9	32.3	20.0	20.3
1987	358.5	285.6	9.0	276.6	23.0	7.3	7.8
1988 1/	236.2	233.5	5.0	228.5	43.9	22.6	23.1

1/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 16--Cranberries: Bearing acreage, yield per acre, production, utilization, season-average grower price, value, United States, 1970 to date

Year	Bearing acreage	Yield per acre	Production 1/		Utilization			Price 3/	Value 1,000 dollars
			Total	Utilized	Fresh	Processed	Shrinkage 2/		
Acres									
			--1,000 barrels--						
1970	21,745	93.7	2,036.6	1,844.6	367.0	1,400.0	77.6	10.70	19,675
1971	22,410	101.1	2,264.8	1,639.8	401.0	1,158.8	80.0	10.70	17,599
1972	22,590	92.0	2,078.0	2,078.0	321.5	1,567.1	189.4	12.50	26,021
1973	23,100	90.9	2,100.3	2,100.3	398.5	1,407.2	231.6	13.50	28,384
1974	23,400	95.6	2,236.0	2,236.0	317.5	1,486.7	431.8	11.00	24,715
1975	23,300	89.1	2,075.1	2,075.1	310.9	1,444.2	320.0	13.10	27,112
1976	23,080	104.3	2,407.3	2,407.3	407.0	1,755.5	244.8	13.50	32,454
1977	22,540	93.3	2,102.2	2,102.2	405.5	1,454.0	242.7	18.10	38,154
1978	23,120	106.3	2,458.5	2,458.5	404.0	1,917.7	136.8	21.50	52,903
1979	23,200	106.7	2,475.5	2,475.5	302.0	2,067.0	106.5	26.70	66,039
1980	23,190	116.3	2,697.5	2,697.5	326.1	2,259.6	111.8	33.20	89,462
1981	23,150	112.0	2,593.0	2,593.0	479.6	1,977.1	136.3	41.50	107,494
1982	23,310	130.4	3,039.0	3,039.0	494.1	2,380.8	164.1	46.70	142,050
1983	23,550	126.8	2,986.0	2,986.0	321.3	2,588.1	76.6	52.00	155,282
1984	23,820	139.5	3,322.0	3,322.0	293.8	2,944.5	83.7	54.50	180,940
1985	24,400	142.8	3,485.0	3,485.0	313.8	3,093.2	78.0	54.50	189,925
1986	24,900	146.2	3,640.0	3,640.0	337.2	3,157.4	145.4	44.70	162,866
1987	25,500	130.2	3,321.0	3,321.0	296.3	2,969.0	55.7	44.50	147,798
1988 5/	25,900	155.2	4,019.0	4,019.0	(6)	(6)	(6)	(6)	178,861

1/ Differences between total and utilized production are cranberries that were put in set-aside under the Cranberry Market Order. Cranberries put in set-aside, but sold for exports are included in utilized production. 2/ Cranberries paid for by processors and lost because of dehydration and berry breakdown after delivery. 3/ Equivalent returns at first delivery point, screened basis of utilized production. 4/ Season average prices for 1988 are not available; 1987 prices use to compute 1988 value. 5/ Preliminary. 6/ Available August 23, 1989.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 17--Grapes: Production, utilization, and season-average grower price, United States, 1970 to date

Year	Production		Utilization		Grower price		
	Total 1/	Utilized 2/	Fresh	Processing	Fresh	Processing	All
	--1,000 short tons--						--Dollars/short ton--
1970	3,103.3	3,103.3	390.0	2,713.3	181.00	81.80	94.20
1971	3,994.4	3,994.4	392.7	3,601.8	181.00	86.80	96.00
1972	2,578.7	2,578.7	358.6	2,220.1	329.00	139.00	165.00
1973	4,198.4	4,198.3	405.8	3,792.5	305.00	148.00	162.00
1974	4,198.8	4,198.8	434.5	3,764.3	267.00	124.00	139.00
1975	4,366.4	4,365.1	498.2	3,866.9	337.00	116.00	142.00
1976	4,398.3	4,093.0	466.3	3,626.7	369.00	129.00	155.00
1977	4,297.8	4,296.3	481.4	3,814.9	438.00	163.00	194.00
1978	4,566.7	4,317.9	437.3	3,880.6	496.00	203.00	233.00
1979	4,989.0	4,988.7	524.1	4,464.6	417.00	215.00	236.00
1980	5,595.2	5,594.9	569.1	5,025.8	560.00	203.00	240.00
1981	4,458.2	4,457.6	526.5	3,931.1	530.00	266.00	297.00
1982	6,555.1	5,864.9	706.4	5,158.5	455.00	202.00	232.00
1983	5,505.7	5,360.2	671.1	4,689.1	436.00	165.00	199.00
1984	5,193.9	5,168.8	676.9	4,491.9	371.00	162.00	190.00
1985	5,606.7	5,606.6	781.1	4,825.5	292.00	151.00	171.00
1986	5,225.9	5,225.3	779.4	4,445.9	463.00	184.00	226.00
1987	5,264.0	5,250.5	716.3	4,534.1	534.00	215.00	259.00
1988 3/	5,986.0	5,984.4	796.3	5,188.0	425.00	224.00	251.00

1/ Includes unharvested and harvested not sold.

2/ Some figures may not add due to rounding.

3/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 18--Grapes: Processed utilization and season-average grower price, United States, 1970 to date

Year	Canned			Juice			Wine			Dried			Other 1/		
	Quantity	Price	Dollars/ton												
1,000 short tons															
1970	53.7	89.00	243.6	146.00	1,583.2	79.00	821.8	66.60	66.60	11.0	146.00	11.0	146.00	11.0	146.00
1971	58.4	94.00	332.8	135.00	2,109.7	85.20	895.9	72.10	72.10	4.9	135.00	4.9	135.00	4.9	135.00
1972	50.5	116.00	206.1	161.00	1,520.2	138.00	437.4	135.00	135.00	5.9	161.00	5.9	161.00	5.9	161.00
1973	59.0	135.00	186.7	198.00	2,567.3	133.00	969.3	175.00	175.00	10.2	199.00	10.2	199.00	10.2	199.00
1974	61.2	152.00	252.6	177.00	2,415.7	110.00	1,023.8	141.00	141.00	11.0	178.00	11.0	178.00	11.0	178.00
1975	52.7	138.00	266.9	155.00	2,275.5	92.10	1,252.4	151.00	151.00	19.4	122.00	19.4	122.00	19.4	122.00
1976	48.0	152.00	262.8	149.00	2,321.7	115.00	982.5	157.00	157.00	11.6	123.00	11.6	123.00	11.6	123.00
1977	54.0	183.00	207.6	210.00	2,411.5	149.00	1,134.0	184.00	184.00	7.8	193.00	7.8	193.00	7.8	193.00
1978	55.0	241.00	389.8	196.00	2,671.5	192.00	759.0	243.00	243.00	5.4	208.00	5.4	208.00	5.4	208.00
1979	60.0	256.00	306.4	203.00	2,713.1	196.00	1,380.9	253.00	253.00	4.3	215.00	4.3	215.00	4.3	215.00
1980	63.0	262.00	344.7	181.00	2,996.3	190.00	1,620.0	230.00	230.00	1.8	210.00	1.8	210.00	1.8	210.00
1981	42.0	260.00	334.1	188.00	2,521.6	250.00	1,032.0	329.00	329.00	1.5	196.00	1.5	196.00	1.5	196.00
1982	35.0	215.00	348.1	173.00	3,227.7	195.00	1,541.5	220.00	220.00	0.7	149.00	0.7	149.00	0.7	149.00
1983	35.0	211.00	446.4	139.00	2,422.7	193.00	1,785.0	132.00	132.00	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1984	30.0	213.00	376.3	113.00	2,693.2	174.00	1,392.5	153.00	153.00	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1985	45.0	213.00	296.5	129.00	2,919.3	162.00	1,561.7	134.00	134.00	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1986	40.0	210.00	309.9	180.00	2,907.5	187.00	1,188.5	177.00	177.00	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1987	40.0	220.00	407.5	205.00	2,647.6	223.00	1,439.0	203.00	203.00	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
1988 3/	40.0	225.00	2/ 345.6	216.00	2,975.5	254.00	1,821.0	178.00	178.00	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

N.A. = not available.

1/ Includes jam, jelly, and etc.

2/ Includes small quantities of other processing (jam, jelly, etc.)

3/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 19—Grapes: Production, and season-average grower price, California, 1970 to date 1/

Year	Wine type		Table type		Raisin type 2/		Raisin dried 3/		Raisin not dried		All types		
	Production	Price	Production	Price	Production	Price	Production	Price	Production	Price	Production	Price	
1,000 short tons	Dollars/ton	1,000 short tons	Dollars/ton	1,000 short tons	Dollars/ton	1,000 short tons	Dollars/ton	1,000 short tons	Dollars/ton	1,000 short tons	Dollars/ton	1,000 short tons	
1970	531.0	117.00	345.0	109.00	1,871.0	71.60	193.0	283.00	1,051.0	75.40	2,747.0	85.	
1971	765.0	139.00	454.0	96.10	2,312.0	68.40	194.1	329.00	1,419.0	66.40	3,531.0	87.	
1972	630.0	222.00	301.0	210.00	1,442.0	123.00	105.0	560.00	1,908.0	117.00	2,275.0	162.	
1973	1,040.0	208.00	475.0	174.00	2,376.0	133.00	224.0	754.00	1,409.0	104.00	3,891.0	158.	
1974	1,228.0	133.00	586.0	131.00	1,970.0	128.00	241.5	602.00	948.8	113.00	3,794.0	130.	
1975	1,335.0	110.00	434.0	218.00	2,201.0	137.00	177.00	283.0	665.00	951.4	118.00	3,948.0	137.
1976	1,333.0	136.00	405.0	217.00	2,250.0	150.00	150.00	283.0	706.00	976.0	143.00	3,978.0	152.
1977	1,533.0	175.00	488.0	183.00	1,935.0	183.00	248.3	840.00	803.0	103.00	3,986.0	190.	
1978	1,706.0	210.00	393.0	342.00	1,918.0	229.00	228.5	1,067.00	912.0	211.00	4,017.0	232.	
1979	1,821.0	214.00	417.0	310.00	2,320.0	239.00	302.3	1,151.00	944.0	219.00	4,538.0	236.	
1980	2,004.0	210.00	428.0	410.00	2,692.0	237.00	309.0	1,205.00	1,080.0	245.00	5,126.0	241.	
1981	1,794.0	266.00	420.0	440.00	1,779.0	306.00	256.0	1,755.0	1,755.0	275.00	3,993.0	302.	
1982	2,402.0	218.00	612.0	3,062.0	218.00	292.0	1,153.00	1,153.00	1,112.0	214.00	6,016.0	231.	
1983	1,880.0	209.00	504.0	351.00	158.00	396.0	587.00	587.00	617.0	236.00	4,919.0	199.	
1984	1,900.0	201.00	475.0	354.00	2,295.0	156.00	334.5	635.00	892.0	161.00	4,670.0	190.	
1985	2,140.0	184.00	580.0	230.00	2,887.0	141.00	346.0	612.00	930.0	149.00	5,207.0	168.	
1986	2,105.0	207.00	620.0	307.00	2,045.0	213.00	277.0	757.00	(5)	222.00	4,770.0	222.	
1987	1,950.0	248.00	540.0	435.00	2,170.0	223.00	356.0	817.00	(5)	(5)	4,660.0	258.	
1988	4/	2,180.0	297.00	755.0	2,550.0	201.00	2,550.0	363.0	363.0	888.00	(5)	5,485.0	247.

1/ Price derived from unrounded data for all types and raisin type. 2/ Fresh equivalent of dried and not dried. 3/ Dried basis; 1 ton of raisins equivalent to 4.26 tons for 1986, 4.02 tons for 1987, and 5.00 tons for 1988. Includes standard raisins diverted to other uses. 4/ Preliminary. 5/ No longer reported.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 20--Fresh grapes: Supply and utilization, 1970 to date

Season 1/	Supply		Utilization			Consumption	
	Production	Imports	Total supply	Exports	Shipments	Total	Per capita
	--Million pounds--						
1970/71	703.9	44.5	748.4	228.6	4.2	515.6	2.50
1971/72	725.3	25.4	750.7	281.3	4.0	465.4	2.23
1972/73	659.7	19.7	679.4	206.0	5.6	467.8	2.22
1973/74	773.3	30.0	803.3	228.2	5.4	569.7	2.68
1974/75	807.1	42.4	849.5	232.1	5.2	612.2	2.85
1975/76	906.3	46.2	952.5	252.0	6.2	694.3	3.20
1976/77	861.9	60.1	922.0	214.8	2.9	704.3	3.23
1977/78	881.9	65.4	947.3	241.2	3.1	703.0	3.17
1978/79	808.3	99.9	908.2	210.5	4.9	692.8	3.09
1979/80	976.7	88.6	1,065.3	256.7	6.6	802.0	3.54
1980/81	1,024.6	123.5	1,148.1	269.6	6.4	872.1	3.81
1981/82	979.5	201.5	1,181.0	247.7	4.8	928.5	4.01
1982/83	1,323.3	279.5	1,602.8	240.6	4.7	1,357.5	5.81
1983/84	1,213.4	320.8	1,534.2	246.1	2.0	1,286.1	5.45
1984/85	1,353.8	427.2	1,781.0	234.7	2.9	1,543.4	6.48
1985/86	1,562.2	463.6	2,025.8	230.9	2.9	1,792.0	7.45
1986/87	1,558.8	540.6	2,099.4	329.6	3.4	1,766.4	7.27
1987/88	1,432.6	661.8	2,094.4	229.6	2.9	1,861.9	7.63

1/ Season beginning July 1.

Source: Commodity Economics Division, ERS, USDA.

Table 21—Dried raisins: Supply and utilization, 1970 to date

Season 1/	Supply			Utilization			Consumption		
	Production	Imports	Beginning stocks	Total supply	Ending stocks	Total use	Exports	Shipments	Nonfood
	--Million pounds, processed weight--								
1970/71	359.8	2.2	160.9	522.9	114.3	408.6	124.9	0.0	9.3
1971/72	362.4	6.5	114.3	483.2	50.5	432.7	148.3	0.0	274.4
1972/73	196.0	6.1	50.5	252.6	5.7	246.9	46.8	0.0	284.4
1973/74	417.7	2.6	5.7	426.0	34.2	391.8	99.7	0.0	200.1
1974/75	450.4	0.1	34.2	484.7	90.5	394.2	110.7	0.0	292.1
1975/76	450.4	0.1	90.5	618.7	124.6	494.1	143.0	0.0	283.5
1976/77	527.6	32.6	124.6	427.8	68.2	359.6	80.4	0.0	351.1
1977/78	463.0	2.1	68.2	533.3	130.7	402.6	117.4	0.0	279.2
1978/79	320.8	35.0	130.7	486.5	34.9	451.6	44.4	0.0	285.2
1979/80	559.5	1.3	34.9	595.7	108.4	487.3	149.1	0.0	217.9
1980/81	577.6	0.0	108.4	686.0	201.4	484.6	143.0	0.7	189.3
1981/82	479.9	1.2	201.4	682.5	159.7	522.8	122.8	2.0	338.2
1982/83	549.3	10.8	159.7	719.8	176.6	543.2	113.8	1.5	340.9
1983/84	741.2	5.9	176.6	923.7	284.6	639.1	115.0	1.3	398.0
1984/85	623.1	1.4	284.6	909.1	291.3	617.8	120.5	1.3	440.6
1985/86	647.2	7.4	291.3	945.9	388.8	557.1	115.0	1.5	440.6
1986/87	518.8	12.2	388.8	919.8	229.0	690.8	158.6	1.5	530.7
1987/88	665.9	18.2	229.0	913.1	296.1	617.0	216.9	0.0	400.1

1/ Season beginning September 1.

Source: Commodity Economics Division, ERS, USDA.

Table 22--Kiwifruit: Acreage, production, season-average grower price, and value, California, 1980 to date 1/

Year	Bearing acreage		Production	Prices		Value
	Acres	Short tons		Dollars/ton	1,000 dollars	
1980	1,600	5,300	2,400.00	10,080		
1981	3,000	6,900	2,000.00	11,000		
1982	3,400	15,500	920.00	10,580		
1983	3,100	13,500	1,235.00	14,203		
1984	3,800	18,000	1,068.00	17,729		
1985	4,800	22,000	813.00	16,667		
1986	5,600	24,300	1,030.00	24,102		
1987	6,800	29,000	710.00	18,886		
1988 2/	6,900	32,700	760.00	22,420		

1/ First estimates were in 1980.

2/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 23--Mangos: Acreage, bearing trees, production, season-average grower price, and value, United States, 1970 to date

Crop year	Acreage			Bearing trees	Production	Prices 2/	Value
	Total	Non-bearing 1/	Bearing				
			--Acres--		1,000	Bushels	Dollars
1970	1,450	50	1,400	103	148,000	3.10	459
1971	1,450	50	1,400	104	180,000	5.50	990
1972	1,450	50	1,400	104	175,000	8.00	1,400
1973	1,750	50	1,400	105	250,000	5.75	1,438
1974	1,400	50	1,350	101	225,000	8.50	1,912
1975	1,800	150	1,650	124	325,000	8.75	2,844
1976	1,900	200	1,700	133	400,000	7.50	3,000
1977	1,800	150	1,650	130	175,000	13.75	2,406
1978	1,750	100	1,650	132	225,000	9.50	2,138
1979	1,750	300	1,450	116	260,000	11.30	2,938
1980	1,800	350	1,450	118	250,000	12.00	3,000
1981	1,900	450	1,450	123	240,000	13.90	3,336
1982	2,200	700	1,500	130	225,000	16.00	3,600
1983	2,400	900	1,500	137	350,000	12.00	4,200
1984	2,600	900	1,700	145	450,000	12.50	5,625
1985	2,700	900	1,800	154	425,000	12.50	5,312
1986	2,700	600	2,100	188	400,000	11.00	4,400
1987	2,800	600	2,200	195	550,000	12.00	6,600
1988 3/	2,900	500	2,400	215	350,000	15.00	5,250

1/ Less than five years old.

2/ Price delivered to packing house door.

3/ Preliminary.

Sources: Florida Agricultural Statistics Service.

Table 24--Nectarines: Production, utilization, and season-average grower price, California, 1970 to date

Year	Production		Utilization		Grower price		
	Total	Utilized	Fresh	Processing	Fresh	Processing	All
--Short tons--							
1970	66,500	66,500	65,300	1,200	153.00	91.90	152.00
1971	70,000	70,000	69,100	900	156.00	88.20	155.00
1972	87,000	87,000	86,400	600	177.00	106.00	177.00
1973	86,500	865,000	85,600	900	257.00	98.10	255.00
1974	117,000	117,000	115,600	1,400	230.00	91.50	228.00
1975	111,000	111,000	110,000	1,000	276.00	136.00	275.00
1976	128,000	128,000	127,500	500	245.00	162.00	245.00
1977	155,000	155,000	155,000	N.A.	205.00	N.A.	205.00
1978	148,000	148,000	144,700	3,300	313.00	44.10	307.00
1979	172,000	172,000	171,000	1,000	198.00	69.00	197.00
1980	191,000	191,000	190,500	500	231.00	78.00	231.00
1981	182,000	182,000	181,500	500	229.00	91.00	229.00
1982	178,000	178,000	175,900	2,100	251.00	49.00	249.00
1983	185,000	185,000	183,800	1,200	301.00	42.00	300.00
1984	185,000	183,000	182,800	200	316.00	70.00	316.00
1985	210,000	210,000	208,000	2,000	330.00	41.50	327.00
1986	172,000	172,000	170,000	2,000	445.00	35.00	440.00
1987	191,000	191,000	190,500	500	344.00	26.00	343.00
1988 1/	200,000	200,000	199,000	1,000	396.00	57.00	394.00

N.A. = not available.

1/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 25--Olives: Bearing acreage, yield per acre, production, utilization, and season-average grower price, value, California, 1970 to date

Year	Bearing acreage	Yield per acre	Production	Utilization			Processed Utilization	Grower price	Value 1/000 dollars		
				Processed		Canned 1/	Crushed for oil				
				Fresh	Processed						
-- Short tons --											
Acres											
1970	27,600	1.88	52,000	600	51,400	39,200	4,100	8,100	247.00		
1971	27,700	1.99	55,000	700	54,300	39,600	4,900	9,800	148.00		
1972	28,300	0.86	24,200	200	24,000	20,000	4,700	3,300	415.00		
1973	28,600	2.45	70,000	700	69,300	54,300	4,300	10,700	392.00		
1974	28,500	2.05	58,500	900	57,600	46,700	3,100	7,800	432.00		
1975	29,100	2.30	67,000	900	66,100	53,300	3,800	9,000	389.00		
1976	30,800	2.60	80,000	600	79,400	65,500	3,700	10,200	336.00		
1977	33,100	1.30	43,000	600	42,400	32,300	2,300	7,800	322.00		
1978	37,200	3.39	126,000	800	125,200	99,100	7,300	18,800	403.00		
1979	36,900	1.68	62,000	500	61,500	52,300	1,600	7,600	303.00		
1980	36,300	3.00	109,000	300	108,700	76,800	3,500	408.00	251.96		
1981	34,300	1.31	44,900	300	44,600	37,900	2,000	28,400	401.37		
1982	35,000	4.19	146,500	164,000	98,000	98,000	2,500	4,700	311.22		
1983	35,100	1.74	61,000	400	60,600	60,000	2,600	517.00	75.00		
1984	33,800	2.68	90,600	400	90,200	76,700	2,900	10,600	N.A.		
1985	32,900	2.92	96,000	500	95,500	76,100	5,800	13,600	519.00		
1986	32,300	3.45	111,500	500	111,000	85,000	6,000	20,000	560.00		
1987	31,600	2.14	67,500	500	67,000	55,000	3,000	9,000	557.00		
1988 3/	31,500	2.78	87,500	500	87,000	70,000	3,000	14,000	609.00		
									50,449		

N.A. = not available.

1/ Beginning 1983 includes chopped, sliced and other cures.

2/ Chopped, sliced, and other cures until 1983; beginning 1984, limited and undersized.

3/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 26--Papayas: Acreage, yield per acre, production, utilization, and season-average grower price, Hawaii, 1970 to date

Year	Acreage harvested	Yield per acre 1/	Utilized production	Utilization		Grower price		
				Fresh	Processed	Fresh	Processed	All
	Acres	Pounds		-- 1,000 pounds --		-- Cents/pound --		
1970	1,040	23.3	24,960	23,938	1,022	10.0	3.9	9.8
1971	970	21.4	20,725	19,172	1,553	14.0	3.3	13.2
1972	985	26.1	25,735	21,959	3,776	15.1	2.9	13.3
1973	1,430	23.0	32,824	28,848	3,976	14.0	3.5	12.7
1974	1,690	22.0	37,224	34,529	2,695	13.9	3.1	13.1
1975	1,840	21.7	39,896	34,952	4,944	15.8	3.0	14.2
1976	1,930	25.9	50,037	43,588	6,449	13.5	3.8	12.3
1977	2,155	29.5	63,548	53,987	9,561	13.2	4.7	11.9
1978	2,190	40.6	64,000	54,624	9,376	14.4	4.6	13.0
1979	2,210	29.7	41,015	36,446	4,569	25.6	4.0	23.2
1980	1,950	37.9	48,916	45,360	3,556	21.7	3.4	20.4
1981	2,110	44.5	66,390	58,170	8,220	20.9	3.1	18.7
1982	2,170	38.7	52,750	44,770	7,980	25.1	3.1	21.8
1983	2,120	36.1	61,400	46,300	15,100	23.6	4.4	18.9
1984	2,590	46.3	80,500	67,000	13,500	13.1	3.1	11.4
1985	2,650	35.8	60,400	49,250	11,150	16.9	2.3	14.2
1986	2,400	34.6	61,000	50,100	10,900	21.7	2.3	18.2
1987	2,350	44.7	67,000	56,000	11,000	19.3	2.2	16.5
1988 2/	2,300	N.A.	69,000	57,000	12,000	21.0	3.2	17.9

1/ Yield is based on total production which includes unharvested production and fruit harvested but not sold due to marketing conditions.

2/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 27--Peaches: Production, utilization, and season-average grower price, United States, 1970 to date

Year	Production		Utilization		Grower price		
	Total	Utilized	Fresh	Processing	Fresh	Processing	All
	--Million pounds--				Cents/lb.	Dollars/ton	Cents/lb.
1970	2,995.8	2,786.3	1,181.5	1,604.8	8.03	92.30	6.04
1971	2,882.6	2,742.3	1,201.0	1,541.3	9.65	89.90	6.07
1972	2,371.5	2,249.5	844.9	1,404.6	11.00	88.10	6.90
1973	2,590.9	2,412.7	935.2	1,477.5	12.30	113.00	8.30
1974	2,917.2	2,756.3	952.0	1,804.3	13.00	151.00	9.50
1975	2,835.6	2,645.6	1,099.6	1,546.0	14.70	144.00	10.40
1976	3,018.3	2,641.7	1,151.2	1,490.5	13.30	134.00	9.60
1977	2,955.4	2,825.7	1,144.0	1,681.7	14.10	137.00	9.80
1978	2,652.7	2,515.7	1,135.8	1,397.9	17.00	155.00	12.00
1979	2,938.7	2,834.2	1,250.5	1,583.7	15.30	173.00	11.60
1980	3,068.6	2,954.1	1,324.1	1,630.0	16.60	181.00	12.40
1981	2,770.6	2,639.8	1,331.0	1,308.8	16.60	200.00	13.30
1982	2,285.6	2,101.9	976.9	1,125.0	20.60	181.00	14.40
1983	1,855.3	1,753.8	967.1	786.7	19.70	177.00	14.80
1984	2,659.3	2,467.9	1,286.9	1,181.0	16.10	192.00	13.00
1985	2,147.3	2,046.4	924.8	1,121.6	20.60	209.00	15.00
1986	2,328.4	2,239.9	1,112.8	1,127.1	19.90	166.00	14.10
1987	2,390.8	2,248.2	1,123.3	1,124.9	18.50	184.00	13.80
1988 1/	2,619.7	2,459.0	1,231.8	1,227.2	21.30	198.00	15.60

1/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 28--Peaches: Processed utilization, and season-average grower price, United States, 1970 to date

Year	Canned		Frozen		Dried		Other 1/	
	Quantity	Price	Quantity	Price	Quantity	Price	Quantity	Price
	Million pounds	Dollars/ton						
1970	1,476.6	94.30	73.7	66.30	36.4	87.50	18.1	38.10
1971	1,397.1	91.70	86.3	76.60	29.8	87.50	28.1	39.30
1972	1,268.8	89.90	65.3	90.20	24.0	110.00	46.5	34.00
1973	1,325.4	113.00	104.9	130.00	24.0	141.00	23.2	54.30
1974	1,650.6	153.00	78.1	154.00	29.0	115.00	46.6	63.60
1975	1,432.0	148.00	52.7	110.00	38.0	185.00	23.3	46.80
1976	1,326.3	135.00	109.8	113.00	30.0	232.00	24.4	42.20
1977	1,504.7	140.00	109.8	116.00	42.0	199.00	25.2	45.10
1978	1,230.8	161.00	69.8	122.00	35.0	185.00	44.3	40.90
1979	1,427.6	177.00	93.5	155.00	33.0	136.00	29.6	61.70
1980	1,498.3	185.00	77.1	131.00	34.0	115.00	20.6	82.10
1981	1,173.7	205.00	78.3	152.00	34.8	112.00	22.0	121.00
1982	983.9	185.00	70.5	153.00	45.0	120.00	25.6	122.00
1983	675.4	180.00	64.3	179.00	36.0	118.00	11.0	101.00
1984	1,028.5	199.00	89.0	151.00	28.0	100.00	35.5	141.00
1985	982.6	219.00	93.3	153.00	32.5	104.00	13.2	130.00
1986	926.9	171.00	136.3	165.00	32.5	96.00	31.4	103.00
1987	876.8	193.00	144.9	169.00	35.0	101.00	68.2	132.00
1988 2/	982.0	210.00	134.9	159.00	41.2	117.00	69.1	132.00

1/ Pickles, wine, and brandy.

2/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 29--Fresh peaches: Supply and utilization, 1970 to date

Year	Supply			Utilization				Consumption Per capita Pounds	
	Production	Imports	Total supply	Exports	Shipments	Total			
						--Million pounds--			
1970	1,181.5	42.2	1,223.7	30.1	0.5	1,193.1	5.82		
1971	1,201.0	3.7	1,204.7	29.5	0.4	1,174.8	5.66		
1972	844.9	2.0	846.9	31.2	0.4	815.3	3.88		
1973	935.2	0.4	935.6	31.4	1.0	903.2	4.26		
1974	952.0	2.1	954.1	25.9	0.5	927.7	4.34		
1975	1,099.6	3.0	1,102.6	25.9	0.4	1,076.3	4.98		
1976	1,151.2	9.1	1,160.3	39.3	0.6	1,120.4	5.14		
1977	1,144.0	5.0	1,149.0	26.8	0.2	1,122.0	5.09		
1978	1,135.8	9.7	1,145.5	30.3	1.1	1,114.1	5.01		
1979	1,250.5	7.0	1,257.5	32.1	1.1	1,224.3	5.44		
1980	1,324.1	9.0	1,333.1	40.2	1.1	1,291.8	5.67		
1981	1,331.0	7.0	1,338.0	66.4	1.9	1,269.7	5.52		
1982	976.9	12.7	989.6	68.4	1.8	919.4	3.95		
1983	967.1	28.6	995.7	40.2	1.2	954.3	4.06		
1984	1,286.9	37.1	1,324.0	39.9	0.8	1,283.3	5.41		
1985	924.8	63.9	988.7	32.0	1.2	955.5	3.99		
1986	1,112.8	72.6	1,185.4	43.0	1.0	1,141.4	4.72		
1987	1,133.3	81.2	1,214.5	44.7	0.7	1,169.1	4.79		
1988	1,231.8	95.1	1,326.9	65.4	0.0	1,261.5	5.12		

Source: Commodity Economics Division, ERS, USDA.

Table 30--Canned peaches: Supply and utilization, product weight, 1970 to date

Season 1/	Supply					Utilization			
	Production	Imports	Beginning stocks	Total supply	Ending stocks	Total use	Consumption		
							Exports	Total	
--Million pounds--									
1970/71	1,285.0	0.9	399.0	1,684.9	346.1	1,338.8	166.9	1,171.9	5.68
1971/72	1,120.6	0.7	346.1	1,467.4	210.2	1,257.2	119.0	1,138.2	5.45
1972/73	1,044.7	2.4	210.2	1,257.3	77.8	1,179.5	119.1	1,060.4	5.03
1973/74	1,066.4	0.6	77.8	1,144.8	69.3	1,075.5	126.9	948.6	4.45
1974/75	1,410.7	0.5	69.3	1,480.5	233.8	1,246.7	96.6	1,150.1	5.35
1975/76	1,260.8	0.2	233.8	1,494.8	332.2	1,162.6	93.4	1,069.2	4.93
1976/77	1,079.2	0.0	332.2	1,411.4	262.6	1,148.8	114.4	1,034.4	4.72
1977/78	1,270.9	0.1	262.6	1,533.6	294.5	1,239.1	160.1	1,079.0	4.87
1978/79	931.5	0.1	294.5	1,226.1	155.8	1,070.3	143.7	926.6	4.14
1979/80	1,124.0	0.1	155.8	1,279.9	212.1	1,067.8	135.3	932.5	4.12
1980/81	1,164.3	0.6	212.1	1,377.0	320.5	1,056.5	129.6	926.9	4.05
1981/82	946.7	0.4	320.5	1,267.6	360.9	906.7	87.9	818.8	3.54
1982/83	810.9	0.8	360.9	1,172.6	242.4	930.2	79.3	850.9	3.64
1983/84	471.2	52.5	242.4	766.1	49.6	716.5	35.0	681.5	2.89
1984/85	848.8	55.8	49.6	954.2	182.3	771.9	25.2	746.7	3.13
1985/86	800.4	63.5	182.3	1,046.2	260.8	785.4	31.1	754.3	3.14
1986/87	674.5	38.2	260.8	973.5	156.3	817.2	35.2	782.0	3.22
1987/88	691.6	56.0	156.3	903.9	66.7	837.2	41.1	796.1	3.25

1/ Season beginning June 1.

Source: Commodity Economics Division, ERS, USDA.

Table 31--All pears: Production, utilization, and season-average grower price, United States, 1970 to date

Year	Production		Utilization		Grower price		
	Total	Utilized	Fresh	Processed	Fresh	Processed	1/ All
--1,000 short tons--							
1970	548.8	538.8	197.9	340.9	146.00	125.00	133.00
1971	749.1	707.2	284.8	422.4	102.00	84.00	94.50
1972	612.1	608.7	251.0	357.6	175.00	113.00	139.00
1973	730.4	725.8	307.2	418.6	160.00	121.00	138.00
1974	741.7	740.7	296.0	444.7	182.00	161.00	169.00
1975	748.0	741.8	326.8	415.0	161.00	128.00	143.00
1976	839.1	819.1	339.2	479.9	144.00	111.00	124.00
1977	781.6	779.5	298.2	481.3	193.00	117.00	146.00
1978	723.3	723.3	297.0	426.2	267.00	187.00	219.00
1979	854.7	854.2	300.1	554.1	276.00	166.00	204.00
1980	897.4	896.4	345.1	551.3	244.00	167.00	196.00
1981	897.0	984.0	378.0	516.0	249.00	142.00	187.00
1982	804.0	802.7	368.1	434.6	255.00	123.00	183.00
1983	774.7	774.5	384.5	390.0	216.00	126.00	170.00
1984	709.6	696.8	324.1	372.7	300.00	168.00	229.00
1985	747.2	747.0	349.7	397.3	349.00	200.00	269.00
1986	766.4	760.4	375.4	384.9	369.00	168.00	267.00
1987	940.3	937.6	456.4	481.3	227.00	172.00	198.00
1988 2/	861.0	860.6	427.3	433.3	357.00	191.00	273.00

1/ Excludes dried.

2/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 32--Bartlett pears: Production, utilization, and season-average grower price, United States, 1970 to date

Year	Production		Utilization		Grower price		
	Total	Utilized	Fresh	Processed	Fresh	Processing excluding dried	All
	--1,000 short tons--						--Dollars/short ton--
1970	389.0	383.8	75.6	308.0	154.00	129.00	135.00
1971	534.0	496.0	116.1	379.9	103.00	87.20	91.30
1972	438.0	436.0	113.1	322.9	155.00	118.00	128.00
1973	517.5	513.5	135.0	378.5	136.00	127.00	130.00
1974	495.4	495.4	102.3	393.1	199.00	173.00	178.00
1975	509.5	509.5	134.7	374.8	121.00	136.00	133.00
1976	580.0	560.0	122.6	437.4	126.00	116.00	119.00
1977	544.0	543.0	109.8	433.2	149.00	120.00	127.00
1978	468.5	468.5	95.9	372.6	275.00	194.00	212.00
1979	593.0	593.0	103.4	489.6	249.00	177.00	189.00
1980	610.0	610.0	117.9	492.1	200.00	180.00	183.00
1981	595.5	595.5	136.2	459.3	190.00	152.00	161.00
1982	525.3	525.3	150.1	375.2	180.00	135.00	147.00
1983	463.3	463.3	123.1	340.2	211.00	135.00	154.00
1984	447.0	434.5	103.5	331.0	220.00	181.00	190.00
1985	468.0	468.0	119.3	348.7	299.00	217.00	236.00
1986	466.0	461.0	128.5	332.5	344.00	182.00	226.00
1987	574.0	574.0	153.5	420.5	174.00	185.00	181.00
1988 1/	506.0	506.0	121.2	384.8	356.00	207.00	242.00

1/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 33--Fresh pears: Supply and utilization, 1970 to date

Season 1/	Supply			Utilization			Consumption Per capita Pounds	
	Production	Imports	Total supply	Exports	Shipments	Total		
1970/71	395.8	37.5	433.3	41.4	0.0	391.9	1.90	
1971/72	569.6	16.4	586.0	56.3	0.0	529.7	2.54	
1972/73	502.1	33.6	535.7	53.6	0.0	482.1	2.28	
1973/74	614.5	18.5	633.0	86.3	0.0	546.7	2.57	
1974/75	591.9	18.5	610.4	76.3	0.0	534.1	2.48	
1975/76	653.6	15.6	669.2	74.8	0.0	594.4	2.74	
1976/77	678.5	10.1	688.6	69.7	0.0	618.9	2.84	
1977/78	596.4	12.9	609.3	80.0	2.4	526.9	2.38	
1978/79	594.1	14.8	608.9	82.4	3.1	523.4	2.34	
1979/80	600.2	18.0	618.2	90.6	3.4	524.2	2.31	
1980/81	690.1	19.3	709.4	101.7	3.0	604.7	2.64	
1981/82	755.9	21.7	777.6	115.1	2.0	660.5	2.85	
1982/83	736.3	21.7	758.0	79.1	1.7	677.2	2.90	
1983/84	768.9	27.4	796.3	75.7	1.8	718.8	3.05	
1984/85	648.1	40.2	688.3	59.9	1.8	626.6	2.63	
1985/86	699.4	55.4	754.8	65.4	1.8	687.6	2.86	
1986/87	750.8	69.9	820.7	80.2	2.1	738.4	3.04	
1987/88	912.7	72.7	985.4	96.6	2.4	886.4	3.63	

1/ Season beginning July 1.

Source: Commodity Economics Division, ERS, USDA.

Table 34--Canned pears: Supply and utilization, product weight, 1970 to date

Season 1/	Supply					Utilization		
	Production	Imports	Beginning stocks	Total supply	Ending stocks	Consumption		
						Exports	Total	Per capita
--Million pounds--								
1970/71	374.5	18.2	130.1	522.8	143.0	379.8	12.4	367.4
1971/72	448.4	14.9	143.0	606.3	160.4	445.9	9.9	436.0
1972/73	394.2	7.6	160.4	562.2	105.7	456.5	11.0	445.5
1973/74	428.1	0.2	105.7	534.0	77.1	456.9	11.8	445.1
1974/75	465.1	0.0	77.1	542.2	161.6	380.6	6.0	374.6
1975/76	425.3	0.0	161.6	586.9	146.2	440.7	7.8	432.9
1976/77	501.0	0.0	146.2	647.2	152.4	494.8	7.2	487.6
1977/78	418.2	0.1	152.4	570.7	116.8	453.9	9.7	444.2
1978/79	392.6	0.0	116.8	509.4	113.8	395.6	5.8	389.8
1979/80	459.7	0.0	113.8	573.5	163.0	410.5	7.3	403.2
1980/81	475.4	0.0	163.0	638.4	211.0	427.4	5.7	421.7
1981/82	422.0	0.0	211.0	633.0	226.3	406.7	6.3	400.4
1982/83	338.9	0.1	226.3	565.3	144.7	420.6	5.2	415.4
1983/84	313.8	2.1	144.7	460.6	68.0	392.6	2.8	389.8
1984/85	333.1	13.6	68.0	414.7	71.6	343.1	2.5	340.6
1985/86	339.9	36.0	71.6	447.5	131.3	316.2	1.7	314.5
1986/87	313.6	5.4	131.3	450.3	72.5	377.8	3.0	374.8
1987/88	396.9	1.0	72.5	470.4	86.2	384.2	2.2	382.0

1/ Season beginning June 1.

Source: Commodity Economics Division, ERS USDA.

Table 35--Pineapples: Number of farms, acreage, production, disposition, price, and value, Hawaii, 1970 to date

Year	Farms	Acreage used for crop 1/	Utilized production 2/	Disposition		Farm price		Value of production 2/
				Processed 2/	Fresh market 3/	Processed 4/	Fresh market 5/	
	Number	1,000 acres		--1,000 short tons--		--Dollars/ton--		1,000 dollars
1970	47	61.0	954	918	36	39	100	39,500
1971	36	61.0	942	911	31	40	120	40,300
1972	36	58.0	947	906	41	43	120	43,900
1973	33	57.5	810	748	62	43	120	39,600
1974	20	55.0	700	641	59	49	150	40,259
1975	20	50.0	720	657	63	48	160	41,616
1976	17	48.0	680	611	69	63	210	52,983
1977	17	45.0	690	607	83	67	260	62,249
1978	18	43.0	675	580	95	58	310	63,090
1979	18	44.0	681	587	94	67	320	69,409
1980	18	43.0	657	556	101	76	340	76,596
1981	18	41.0	636	519	11	85	390	89,745
1982	18	36.0	670	542	128	82	390	94,364
1983	18	36.0	722	602	120	88	395	100,376
1984	18	35.0	600	481	119	88	400	89,928
1985	18	34.5	565	441	124	90	410	90,530
1986	19	36.0	646	514	132	90	405	99,720
1987	19	36.1	692	558	134	91	362	99,286
1988	NA	34.6	659	526	133	99	416	107,402

NA=not available.

1/ Acreage is total acres in crop, not harvested acreage. 2/ Fresh weight basis. 3/ Beginning 1983 excludes sales of fresh pineapple without tops included in processing utilization. 4/ Estimate to reflect value of fresh fruit delivered to processing plant door. 5/ Estimate to reflect value at wholesale establishments for local sales and shipper dock for mainland and foreign sales.

Sources: Statistics of Hawaiian Agriculture and Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 36--Plums: Acreage, production, season-average grower price, and value, California, 1970 to date

Year	Acres	Production	Grower price	Value
	harvested			
	Acres	Short tons	Dollars/ton	1,000 dollars
1970	21,300	123,000	160.00	19,680
1971	21,700	101,000	229.00	23,129
1972	22,800	96,000	248.00	23,808
1973	24,400	97,000	321.00	31,137
1974	24,600	143,000	275.00	39,325
1975	24,200	124,000	279.00	34,596
1976	25,300	115,000	380.00	43,700
1977	26,600	157,000	313.00	49,141
1978	26,900	154,000	370.00	56,980
1979	28,500	175,000	277.00	48,475
1980	29,400	160,000	449.00	71,810
1981	30,900	197,500	309.00	61,062
1982	32,900	118,000	620.00	73,139
1983	34,900	158,500	435.00	69,020
1984	35,800	225,000	212.00	47,796
1985	36,600	166,500	514.00	85,512
1986	38,200	152,000	657.00	99,857
1987	39,900	245,000	308.00	75,361
1988 1/	40,800	216,000	475.00	102,661

1/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 37--Prunes (dried basis): Acreage, production, season-average grower price, and value, California, 1970 to date 1/

Year	Acres	Production 2/	Grower price	Value
	harvested			
	Acres	Short tons	Dollars/ton	1,000 dollars
1970	96,300	200,000	202.00	40,400
1971	88,200	131,000	287.00	37,597
1972	86,000	77,000	535.00	41,195
1973	82,100	205,000	462.00	94,710
1974	79,700	142,000	440.00	62,480
1975	78,000	149,000	402.00	59,898
1976	74,100	148,000	412.00	60,976
1977	75,200	159,000	499.00	79,341
1978	74,800	132,000	696.00	91,872
1979	74,700	136,000	812.00	110,432
1980	69,600	168,000	683.00	114,744
1981	65,400	159,500	654.00	104,313
1982	66,600	126,000	679.00	85,554
1983	67,700	145,000	667.00	96,715
1984	68,700	148,000	693.00	102,564
1985	71,700	141,000	680.00	95,880
1986	72,600	99,000	819.00	81,081
1987	75,600	229,000	735.00	168,315
1988 3/	76,700	155,000	735.00	113,925

1/ The drying ratio is approximately 3 pounds of fresh to 1 pound of dried fruit.

2/ Production all utilized.

3/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 38--Dried prunes: Supply and utilization, 1970 to date

Season 1/	Supply			Utilization			Per capita consumption			
	Production	Imports	Beginning stocks	Total supply	Ending stocks	Total use		Exports	Shipments	Total
				-Million pounds	processed weight--					Pounds
1970/71	329.4	1.6	115.7	446.7	122.0	324.7	74.4	1.7	248.6	0.68
1971/72	191.0	2.1	122.0	315.1	86.2	228.9	90.6	2.0	136.3	0.58
1972/73	86.8	10.2	86.2	183.2	10.4	172.8	69.2	1.5	102.1	0.48
1973/74	336.5	0.8	10.4	347.7	112.7	235.0	118.4	2.0	114.6	0.54
1974/75	214.6	0.1	112.7	327.4	133.1	194.3	184.0	1.9	108.4	0.50
1975/76	197.6	0.7	133.1	331.4	61.9	269.5	137.6	2.0	129.9	0.60
1976/77	200.5	1.4	61.9	263.8	47.3	216.5	101.6	1.7	113.2	0.52
1977/78	232.1	0.4	47.3	279.8	48.6	231.2	122.2	2.0	107.0	0.48
1978/79	197.5	0.8	48.6	246.9	51.4	195.5	100.2	2.0	95.3	0.42
1979/80	198.5	0.7	51.4	250.6	73.8	176.8	89.3	0.9	86.6	0.38
1980/81	259.0	0.1	73.8	332.9	111.5	221.4	120.8	0.5	100.1	0.44
1981/82	251.0	0.2	111.7	362.7	133.5	229.2	128.3	0.3	100.6	0.43
1982/83	184.5	0.8	133.5	318.8	91.6	227.2	116.4	0.3	110.5	0.47
1983/84	184.5	1.6	91.6	315.4	94.0	221.4	116.2	0.3	104.9	0.44
1984/85	222.2	1.6	91.6	313.6	125.0	188.6	103.3	0.3	85.0	0.36
1985/86	218.6	1.0	94.0	313.6	127.0	220.2	106.4	0.3	113.5	0.47
1986/87	219.3	2.9	125.0	347.2	267.1	40.8	226.3	0.4	105.9	0.44
1987/88	136.9	3.2	127.0	40.8	436.4	154.2	282.2	0.0	152.1	0.62

1/ Season beginning August 1.

Source: Commodity Economics Division, ERS, USDA.

Table 39--Prunes and plums: Production, utilization, and season-average grower price, 4 States, 1970 to date 1/

Year	Production		Utilization		Grower price		
	Total	Utilized	Fresh	Processing	Fresh	Processing	All
	--Short tons--				--Dollars/short ton--		
1970	51,500	48,350	28,040	20,310	146.00	85.60	121.00
1971	88,400	65,000	34,280	30,720	121.00	54.70	89.60
1972	42,400	41,880	29,040	12,840	213.00	79.90	173.00
1973	73,300	66,550	29,350	37,200	210.00	98.00	148.00
1974	71,200	71,200	35,350	35,850	179.00	121.00	150.00
1975	75,600	71,600	34,550	37,050	142.00	86.80	113.00
1976	77,000	73,500	38,150	35,350	158.00	85.50	123.00
1977	61,000	58,000	30,700	27,300	219.00	89.70	158.00
1978	69,800	69,200	40,950	28,250	188.00	110.00	156.00
1979	59,200	59,200	34,100	25,100	237.00	136.00	209.00
1980	76,600	76,600	40,500	36,100	196.00	137.00	179.00
1981	65,100	62,600	32,900	29,700	167.00	126.00	156.00
1982	51,500	47,500	26,550	20,950	362.00	134.00	269.00
1983	51,200	49,200	30,000	19,200	257.00	108.00	199.00
1984	52,000	51,000	28,200	22,800	266.00	138.00	208.00
1985	51,700	48,100	21,700	26,400	329.00	148.00	230.00
1986	48,100	44,100	20,400	23,700	432.00	111.00	260.00
1987	51,500	47,200	23,600	23,600	175.00	108.00	141.00
1988 2/	52,000	48,100	24,000	24,100	249.00	117.00	183.00

1/ Idaho, Michigan, Oregon, and Washington. Mostly prunes; however, estimates include small quantities of plums in all States. 2/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 40--Strawberries: Acreage, production, season-average grower price, and value, United States, 1970 to date

Year	Acres harvested	Production	Grower price		Value	
			Acres	1,000 cwt	Dollars/cwt	1,000 dollars
1970	50,400	4,960		21.50		106,467
1971	47,780	5,207		22.50		116,975
1972	43,410	4,602		24.00		110,262
1973	40,610	4,796		27.60		132,186
1974	39,260	5,388		28.80		155,122
1975	39,590	5,506		30.60		168,352
1976	34,450	5,807		32.90		191,022
1977	35,650	6,619		33.20		219,958
1978	37,600	6,592		31.70		209,257
1979	36,500	6,383		38.70		246,850
1980	36,050	7,017		41.20		288,776
1981	37,000	7,416		42.00		311,147
1982	40,250	8,830		48.10		424,592
1983	43,300	8,935		45.60		407,188
1984	43,300	9,909		41.70		413,251
1985	44,050	10,188		44.30		450,819
1986	44,350	10,193		49.40		503,641
1987	44,620	11,117		49.40		549,082
1988 1/	44,950	11,669		46.00		537,289

1/ Preliminary.

Source: Vegetable Summary, NASS, USDA.

Table 41--Strawberries, fresh market and processing: Production, season-average grower price, and value, United States, 1970 to date

Year	Fresh market			Processing		
	Production	Price	Value	Production	Price	Value
	1,000 cwt	Dollars/cwt	1,000 dollars	1,000 cwt	Dollars/cwt	1,000 dollars
1970	3,164	24.80	78,533	1,796	15.60	27,934
1971	3,404	25.40	86,394	1,803	14.50	26,081
1972	3,211	27.10	86,948	1,391	16.80	23,314
1973	3,164	31.00	97,934	1,632	21.00	34,252
1974	3,706	32.50	120,288	1,682	20.70	34,834
1975	3,774	35.50	133,917	1,732	19.90	34,435
1976	3,695	37.70	139,268	2,112	24.50	51,754
1977	4,298	39.10	167,949	2,321	22.40	52,009
1978	4,779	36.70	175,155	1,813	18.80	34,102
1979	4,360	43.40	189,105	2,023	28.50	57,745
1980	4,821	47.90	231,115	2,196	26.30	57,661
1981	5,375	47.10	253,289	2,041	28.30	57,858
1982	5,896	55.20	325,338	2,934	33.80	99,254
1983	5,854	53.00	310,072	3,081	31.50	97,116
1984	7,482	49.00	366,501	2,427	19.30	46,750
1985	7,541	52.60	396,894	2,647	20.40	53,925
1986	7,348	57.60	422,898	2,845	28.40	80,743
1987	7,752	58.50	453,169	3,365	28.50	95,913
1988 1/	8,433	54.00	455,700	3,236	25.20	81,589

1/ Preliminary.

Source: Vegetable Summary, NASS, USDA.

Table 42--Fresh bananas: Supply and utilization, 1970 to date

Year	Supply			Utilization			Consumption	
	Production	Imports	Total supply	Exports				
				Shipments	Total	Per capita		
--Million pounds--								
1970	5.6	3,558.3	3,563.9	0.0	0.1	3,563.8	17.38	
1971	4.7	3,745.1	3,749.8	0.0	0.1	3,749.7	18.06	
1972	5.1	3,756.7	3,761.8	0.0	0.0	3,761.8	17.92	
1973	6.6	3,842.0	3,848.6	0.0	0.0	3,848.6	18.16	
1974	6.6	3,949.1	3,955.7	0.0	1.4	3,954.3	18.49	
1975	6.2	3,804.9	3,811.1	0.0	1.3	3,809.8	17.64	
1976	5.0	4,194.5	4,199.5	0.0	1.6	4,197.9	19.26	
1977	5.8	4,227.1	4,232.9	0.0	2.2	4,230.7	19.21	
1978	5.7	4,491.0	4,496.7	0.0	1.2	4,495.5	20.20	
1979	5.6	4,718.5	4,724.1	0.0	1.8	4,722.3	20.98	
1980	4.6	4,733.4	4,738.0	0.0	2.9	4,735.1	20.79	
1981	6.0	4,941.6	4,947.6	0.0	0.9	4,946.7	21.49	
1982	5.8	5,233.8	5,239.6	0.0	0.7	5,238.9	22.53	
1983	4.5	4,976.6	4,981.1	0.5	0.5	4,980.1	21.21	
1984	8.9	5,235.3	5,244.2	0.0	0.5	5,243.7	22.13	
1985	8.2	5,593.4	5,601.6	0.0	0.1	5,601.5	23.41	
1986	9.7	6,207.5	6,217.2	0.0	1.9	6,215.3	25.72	
1987	11.4	6,069.2	6,080.6	0.0	2.0	6,078.6	24.92	
1988 1/	11.6	5,938.5	5,950.1	0.1	0.0	5,950.0	24.15	

1/ Preliminary.

Source: Commodity Economics Division, ERS, USDA.

Table 43--Canned fruit cocktails: Supply and utilization, 1970 to date

Season 1/	Supply						Utilization		
	Production	Imports	Beginning stocks	Total supply	Ending stocks	Total use	Consumption		Per capita
							Exports	Total	
--Million pounds--									
1970/71	642.9	14.2	179.4	836.5	172.4	664.1	141.5	522.6	2.53
1971/72	666.6	13.7	172.4	852.7	210.4	642.3	77.3	565.0	2.70
1972/73	599.9	14.3	210.4	824.6	119.1	705.5	100.4	605.1	2.87
1973/74	671.4	91.9	119.1	882.4	67.7	814.7	118.4	696.3	3.27
1974/75	753.4	16.0	67.7	837.1	163.3	673.8	79.5	594.3	2.77
1975/76	673.6	9.5	163.3	846.4	169.1	677.3	82.8	594.5	2.74
1976/77	668.4	10.8	169.1	848.3	163.3	685.0	85.1	599.9	2.74
1977/78	681.2	16.0	163.3	860.5	134.3	726.2	93.7	632.5	2.86
1978/79	623.6	19.9	134.3	777.8	93.6	684.2	95.4	588.8	2.63
1979/80	763.2	18.8	93.6	875.6	171.0	704.6	118.3	586.3	2.59
1980/81	811.8	20.4	171.0	1,003.2	301.4	701.8	114.1	587.7	2.57
1981/82	626.8	14.8	301.4	943.0	297.9	645.1	97.3	547.8	2.37
1982/83	500.5	16.8	297.9	815.2	172.1	643.1	85.1	558.0	2.39
1983/84	430.1	28.6	172.1	630.8	99.5	531.3	50.5	480.8	2.04
1984/85	503.0	51.5	99.5	654.0	104.8	549.2	46.5	502.7	2.11
1985/86	565.5	51.4	104.8	721.7	181.8	539.9	37.8	502.1	2.09
1986/87	486.9	43.5	181.8	712.2	133.7	578.5	41.7	536.8	2.21
1987/88	530.0	37.2	133.7	700.9	101.3	599.6	54.1	545.5	2.22

1/ Season beginning June 1.

Source: Commodity Economics Division, ERS, USDA.

Table 44--Oranges: Bearing acreage and yield per acre, by States, 1969/70 to date

Crop years	Florida			California			Texas			Arizona			United States		
	Bearing acreage		Yield per acre	Bearing acreage		Yield per acre	Bearing acreage		Yield per acre	Bearing acreage		Yield per acre	Bearing acreage		Yield per acre
	1,000 acres	Tons	acres	1,000	Tons	acres	1,000	Tons	acres	1,000	Tons	acres	1,000	Tons	acres
1969/70	636.1	9.74	160.2	9.13	35.0	5.40	15.5	11.23	846.8	9.47					
1970/71	660.5	9.70	167.9	8.37	40.5	6.49	18.1	7.40	887.0	9.25					
1971/72	624.2	9.88	180.4	9.02	42.5	6.14	19.5	9.44	866.6	9.50					
1972/73	619.6	12.33	188.8	8.36	35.0	9.49	24.5	7.76	867.9	11.22					
1973/74	614.6	12.14	196.0	7.73	32.5	8.65	24.4	5.25	867.5	10.82					
1974/75	610.4	12.78	196.9	10.48	30.9	6.25	24.1	7.72	862.3	11.88					
1975/76	596.4	13.67	197.7	10.02	30.9	8.38	23.0	4.35	848.0	12.37					
1976/77	594.3	14.14	192.5	8.83	28.2	10.39	21.0	7.05	836.0	12.61					
1977/78	579.0	13.04	188.6	8.48	28.4	9.15	16.8	8.00	812.8	11.74					
1978/79	577.5	12.91	187.1	7.48	27.8	9.78	14.8	7.36	801.2	11.43					
1979/80	576.6	16.13	185.7	12.00	28.0	6.11	15.7	8.34	806.0	14.68					
1980/81	573.4	13.53	182.7	13.39	25.3	7.27	13.2	7.42	794.6	13.20					
1981/82	560.2	10.11	179.7	8.75	23.7	10.63	13.5	8.52	777.1	9.78					
1982/83	536.8	11.70	177.4	16.09	24.0	10.04	12.6	11.27	750.8	12.68					
1983/84	474.3	11.07	177.5	10.25	24.3	4.40	12.6	5.40	688.7	10.52					
1984/85	420.1	11.13	175.2	11.22	11.4	(1)	10.9	8.44	617.6	10.90					
1985/86	367.6	14.59	174.7	11.57	8.3	1.69	11.0	7.91	561.6	13.33					
1986/87	375.4	14.25	173.0	12.55	8.3	4.46	10.9	9.27	567.6	13.56					
1987/88 2/	382.9	16.22	172.0	12.83	9.1	6.70	10.6	6.42	574.6	14.87					

1/ Due to the severe freeze of December 1983, no commercial supplies were harvested for the 1984/85 crop.

2/ Preliminary.

Sources: Citrus Summary, Florida Agricultural Statistics and Citrus Fruit Summary, NASS, USDA.

Table 45--Oranges: Production by States, 1969/70 to date

Crop years	Florida	California	Texas	Arizona	United States 1/
--1,000 short tons--					
1969/70	6,197	1,463	189	174	8,023
1970/71	6,402	1,406	263	134	8,205
1971/72	6,165	1,627	261	184	8,237
1972/73	7,636	1,579	332	190	9,737
1973/74	7,461	1,516	281	128	9,386
1974/75	7,799	2,063	193	186	10,241
1975/76	8,154	1,980	259	100	10,493
1976/77	8,406	1,699	293	148	10,546
1977/78	7,551	1,599	260	136	9,546
1978/79	7,380	1,399	272	109	9,160
1979/80	9,302	2,228	171	131	11,832
1980/81	7,758	2,447	184	98	10,487
1981/82	5,661	1,572	252	115	7,600
1982/83	6,282	2,854	241	142	9,519
1983/84	5,252	1,819	107	68	7,245
1984/85	4,676	1,966	(3)	92	6,733
1985/86	5,364	2,022	14	87	7,487
1986/87	5,386	2,172	38	101	7,697
1987/88 2/	6,209	2,206	61	68	8,544

1/ Some figures may not add due to rounding.

2/ Preliminary.

3/ Due to the severe freeze of December 1983, no commercial supplies were harvested for the 1984/85 crop.

Sources: Citrus Fruit Summary and July 1989 Crop Production, NASS, USDA.

Table 46--Oranges: Utilization of production, by States, 1969/70 to date

Season	Florida		California		Arizona		Texas		United States 1/	
	Fresh		Processed		Fresh		Processed		Fresh	
	Processed		Fresh		Processed		Fresh		Processed	
--1,000 short tons--										
1969/70	597	5,600	994	469	90	83	108	81	1,789	6,233
1970/71	628	5,775	949	439	49	84	142	138	1,768	6,136
1971/72	505	5,660	1,028	599	76	108	117	145	1,727	6,511
1972/73	550	7,086	904	675	108	82	136	195	1,698	8,039
1973/74	499	6,962	1,099	416	79	49	102	179	1,778	7,606
1974/75	603	7,196	1,355	728	111	76	102	91	2,151	8,090
1975/76	528	7,626	1,233	698	46	54	131	128	1,987	8,506
1976/77	400	8,006	1,221	477	87	62	145	148	1,852	8,694
1977/78	448	7,103	1,080	518	99	37	135	125	1,762	7,781
1978/79	527	6,853	930	469	62	47	89	183	1,607	7,552
1979/80	495	8,807	1,481	747	83	49	88	83	2,146	9,686
1980/81	372	7,386	1,411	1,036	63	35	121	63	1,968	8,519
1981/82	343	5,318	1,293	319	80	35	125	111	1,799	5,783
1982/83	464	5,818	1,622	1,232	95	47	142	99	2,324	7,196
1983/84	344	4,908	1,498	411	57	11	59	48	1,868	5,377
1984/85	299	4,376	1,515	450	72	20	(2)	(2)	1,887	4,846
1985/86	403	4,961	1,655	387	70	17	12	2	2,120	5,367
1986/87	399	4,987	1,564	608	73	28	34	4	2,070	5,627
1987/88 3/	428	5,781	1,545	661	53	15	55	6	2,081	6,463

1/ Some figures may not add due to roundings.
 2/ Due to the severe freeze of December 1983, no commercial supplies were harvested for the 1984/85 crop.
 3/ Preliminary.

Source: Citrus Fruit Summary, NASS, USDA.

Table 47-All oranges: Equivalent on-tree returns, by States, 1969/70 to date

Crop Years	Florida			California			Texas			Arizona			United States		
	Fresh	Processing	All	Fresh	Processing	All	Fresh	Processing	All	Fresh	Processing	All	Fresh	Processing	All
							--Dollars per box--								
1969/70	1.46	1.11	1.14	2.97	0.20	2.08	1.21	0.60	0.95	2.58	0.01	1.34	2.42	1.01	1.34
1970/71	1.81	1.42	1.46	3.33	0.09	2.51	0.98	0.55	0.77	3.52	0.32	2.69	2.42	1.28	1.61
1971/72	2.50	2.01	2.04	2.82	0.10	1.82	1.71	1.40	1.54	2.75	0.34	1.34	2.67	1.76	1.98
1972/73	1.85	1.54	1.56	4.00	0.02	2.30	1.36	0.99	1.13	3.73	0.35	2.27	3.16	1.36	1.70
1973/74	2.10	1.43	1.47	3.81	0.35	2.67	1.28	1.04	1.13	2.73	0.07	1.66	3.20	1.29	1.69
1974/75	2.11	1.48	1.62	3.50	0.51	1.07	1.87	1.00	1.46	2.69	0.28	1.49	3.04	1.33	1.72
1975/76	2.25	1.74	1.77	3.00	0.42	1.79	1.61	1.28	1.51	3.04	0.18	1.30	2.74	1.51	1.77
1976/77	2.20	2.17	2.17	3.76	0.66	2.52	2.06	1.72	1.89	2.60	0.42	1.38	3.29	1.96	2.21
1977/78	4.89	4.09	4.14	6.72	0.25	4.63	3.33	3.41	3.37	5.38	0.57	4.07	5.98	3.76	4.21
1978/79	5.26	4.61	4.66	7.55	0.36	5.14	3.88	3.88	3.55	6.95	0.69	4.19	6.68	4.23	4.70
1979/80	4.16	3.70	3.72	3.74	0.10	2.45	4.67	3.29	4.00	2.65	0.17	1.71	3.82	3.33	3.42
1980/81	5.79	3.96	4.04	5.46	0.28	3.03	4.13	3.07	3.76	4.11	0.71	2.41	3.30	3.30	3.75
1981/82	6.51	4.14	4.28	9.10	0.59	7.13	4.01	3.28	3.69	6.22	0.05	4.31	8.18	3.78	4.94
1982/83	5.94	5.08	5.15	4.37	0.16	2.42	4.16	2.93	3.65	4.52	0.01	3.02	4.65	3.98	4.55
1983/84	7.73	5.61	5.75	8.73	0.90	6.55	4.10	2.70	3.48	7.33	0.16	6.04	8.39	5.95	5.95
1984/85	11.11	6.83	7.10	10.01	1.23	8.00	(1)	(1)	(1)	9.35	1.23	7.79	10.14	6.19	7.41
1985/86	5.33	3.83	3.94	6.60	1.46	5.06	9.30	4.00	8.95	6.64	1.49	5.08	6.38	3.43	4.27
1986/87	6.18	5.14	5.22	8.50	-1.03	5.83	7.85	2.47	7.29	6.45	-0.59	4.52	7.98	4.45	5.40
1987/88	2/	6.06	6.73	8.58	0.15	6.06	8.15	3.27	7.62	8.13	0.10	6.47	8.39	5.97	6.56

1/ Due to the severe freeze of December 1983, no commercial supplies were harvested for the 1984/85 crop.

2/ Preliminary.

Sources: Citrus Summary, Florida Agricultural Statistics and Agricultural Prices, MASS, USDA.

Table 48--Oranges processed, Florida, 1969/70 to date 1/

Season	Frozen concen- trates	Chilled products			Other processed 2/	Total
		Juices	Sections and salads	Total		
--1,000 boxes--						
1969/70	100,739	18,640	841	19,481	8,206	147,907
1970/71	103,521	19,772	703	20,475	8,834	153,305
1971/72	104,399	19,509	535	20,044	7,726	152,213
1972/73	132,210	20,465	654	21,119	8,949	183,397
1973/74	132,469	20,405	605	21,010	7,518	182,007
1974/75	135,512	22,777	526	23,303	7,580	189,698
1975/76	144,526	23,992	621	24,613	7,580	201,332
1976/77	147,772	27,243	378	27,621	8,812	211,826
1977/78	130,929	25,379	382	25,761	8,077	190,528
1978/79	129,123	22,793	315	23,108	6,525	181,864
1979/80	173,229	24,430	309	24,739	6,957	229,664
1980/81	144,322	19,640	227	19,867	6,353	190,409
1981/82	104,355	16,293	225	16,518	4,477	141,868
1982/83	114,343	18,084	170	18,254	2,665	153,516
1983/84	94,547	N.A.	N.A.	16,981	2,909	114,437
1984/85	86,112	N.A.	N.A.	14,903	1,907	102,922
1985/86	96,061	N.A.	N.A.	17,267	1,361	114,689
1986/87	96,182	N.A.	N.A.	19,661	948	116,791
1987/88 3/	110,206	N.A.	N.A.	23,325	904	134,435

N.A.= not available. Series no longer reported separately.

1/ Includes tangelos, temples, tangerines, and K-eary citrus.

2/ Includes cannery juice, blend, and sections and salads.

3/ Preliminary.

Source: Citrus Fruit Summary, NASS, USDA.

Table 49--Frozen concentrated orange juice: Canner's stocks, pack, supplies, and movement, Florida, 1969/70 to date

Season 1/	Carryin	Pack	Supply	Movement	Ending	inventory 2/
					million gallons 3/	
1969/70	17.4	126.4	143.8	121.2	22.6	
1970/71	22.6	133.7	156.3	128.6	27.7	
1971/72	27.7	145.9	173.6	126.3	47.3	
1972/73	47.3	180.2	227.5	178.7	48.8	
1973/74	48.8	176.4	225.2	178.7	46.5	
1974/75	46.5	184.9	231.4	180.7	50.7	
1975/76	50.7	203.5	254.2	200.6	53.6	
1976/77	53.6	181.8	235.4	209.9	25.5	
1977/78	25.5	200.4	225.9	195.0	30.9	
1978/79	30.9	216.5	247.4	210.0	37.4	
1979/80	37.4	256.5	293.9	239.0	54.9	
1980/81	57.3	249.6	306.9	240.5	66.4	
1981/82	69.0	214.9	283.9	230.5	53.4	
1982/83	53.4	228.4	281.8	239.0	42.8	
1983/84	42.8	239.9	282.7	228.3	54.4	
1984/85	54.4	209.6	264.0	215.6	48.4	
1985/86	48.3	215.1	263.4	226.4	37.0	
1986/87	37.0	227.9	264.9	225.2	39.8	
1987/88	39.8	240.9	280.7	238.5	42.2	

1/ Season beginning December 1. 2/ Adjusted. 3/ Beginning 1981/82, reported in 42.0 degree Brix, previously reported in 43.4 and 45.0 degree Brix.

The conversion factor ratio from 43.4 to 42.0 degree is 1.03970 and the ratio from 45.0 to 43.4 degree is 1.0442029.

Source: Florida Citrus Processors Association.

Table 50--Chilled orange juice: Canner's stocks, pack, supplies, and movement,
Florida, 1969/70 to date

Season 1/	Carryin	Pack 2/	Supply	Movement	Ending inventory
--1,000 gallons--					
1969/70	12,604	107,940	120,544	106,064	14,480
1970/71	14,480	112,388	126,868	112,090	14,778
1971/72	14,778	116,970	131,748	111,756	19,992
1972/73	19,992	125,683	145,675	127,255	18,420
1973/74	18,420	135,313	153,733	137,347	16,386
1974/75	16,386	154,478	170,864	154,085	16,779
1975/76	16,779	174,804	191,583	173,558	18,025
1976/77	18,025	178,685	196,710	180,903	15,807
1977/78	15,807	184,966	200,773	185,088	15,685
1978/79	15,685	206,184	221,869	206,149	15,720
1979/80	15,721	234,768	250,489	233,775	16,714
1980/81	16,714	209,863	226,577	210,370	16,207
1981/82	15,934	181,000	196,934	182,279	14,655
1982/83	14,656	185,150	199,806	182,287	17,519
1983/84	17,519	273,827	291,346	264,995	26,351
1984/85	26,351	N.A.	N.A.	N.A.	N.A.
1985/86	N.A.	N.A.	N.A.	N.A.	N.A.
1986/87	N.A.	N.A.	N.A.	N.A.	N.A.
1987/88	N.A.	N.A.	N.A.	N.A.	N.A.

N.A.=not available.

1/ Season beginning October 1.

2/ Pack data are from fresh fruit and frozen concentrated juices, but excludes reprocessed single-strength.

Source: Florida Citrus Processors Association.

Table 51--Canned orange juice: Canner's stocks, pack, supplies, and movement,
Florida, 1969/70 to date 1/

Season 2/	Carryin	Pack	Supply	Movement	Ending inventory
--1,000 cases, (24 No. 2's)-- 3/					
1969/70	1,991	11,223	13,214	12,101	1,113
1970/71	1,113	11,749	12,862	11,532	1,330
1971/72	1,330	10,942	12,272	10,477	1,795
1972/73	1,795	13,670	15,465	12,578	2,887
1973/74	2,887	10,885	13,772	11,133	2,639
1974/75	2,639	10,737	13,376	11,349	2,027
1975/76	2,027	10,635	12,662	10,746	1,916
1976/77	1,916	10,767	12,683	10,592	2,091
1977/78	2,091	11,654	13,745	11,671	2,074
1978/79	2,074	13,222	15,296	12,678	2,618
1979/80	2,618	13,869	16,487	13,974	2,513
1980/81	2,513	13,012	15,525	13,031	2,494
1981/82	2,494	11,503	13,997	11,953	2,044
1982/83	2,404	9,802	12,206	10,792	1,414
1983/84	1,414	9,084	10,498	9,311	1,187
1984/85	1,187	7,425	8,612	7,723	889
1985/86	889	7,596	8,485	7,498	987
1986/87	987	8,122	9,109	8,084	1,025
1987/88	1,025	7,256	8,281	7,425	856

1/ Single-strength.

2/ Season beginning October 1.

3/ Beginning 1976/77 includes reconstituted orange juice.

Source: Florida Citrus Processors Association.

Table 52--Fresh oranges: Supply and utilization, 1970 to date

Season 1/	Supply			Utilization			Consumption Per capita Pounds	
	Production 2/	Imports	Total supply	Exports	Shipments	Total		
	--Million pounds--							
1969/70	3,836.0	58.0	3,894.0	569.2	10.7	3,314.1	16.16	
1970/71	3,734.0	62.6	3,796.6	522.1	9.3	3,265.2	15.72	
1971/72	3,612.0	84.6	3,696.6	642.7	15.2	3,038.7	14.48	
1972/73	3,616.0	61.8	3,677.8	600.0	18.0	3,059.8	14.44	
1973/74	3,732.0	53.9	3,785.9	688.1	13.3	3,084.5	14.42	
1974/75	4,474.0	27.3	4,501.3	1,055.8	15.6	3,429.9	15.88	
1975/76	4,182.0	20.5	4,202.5	970.4	17.2	3,214.9	14.74	
1976/77	3,814.0	35.0	3,849.0	876.9	11.9	2,960.2	13.44	
1977/78	3,714.0	26.6	3,740.6	737.8	8.9	2,993.9	13.45	
1978/79	3,408.0	78.4	3,486.4	636.3	12.3	2,837.8	12.61	
1979/80	4,542.0	22.2	4,564.2	947.9	8.8	3,607.5	15.84	
1980/81	4,034.0	18.2	4,052.2	921.3	6.8	3,124.1	13.57	
1981/82	3,710.0	29.4	3,739.4	780.6	4.0	2,954.8	12.71	
1982/83	4,786.0	13.4	4,799.4	1,016.5	7.1	3,775.8	16.08	
1983/84	3,806.0	38.5	3,844.5	810.5	2.5	3,031.5	12.79	
1984/85	3,832.0	27.5	3,859.5	898.3	1.0	2,960.2	12.37	
1985/86	4,506.0	62.1	4,568.1	869.2	1.9	3,697.0	15.30	
1986/87	4,446.0	44.4	4,490.4	874.2	1.5	3,614.7	14.82	
1987/88	4,368.0	49.6	4,417.6	738.0	0.0	3,679.6	14.95	

1/ Season beginning November 1.

2/ Includes temples.

Source: Commodity Economics Division, ERS, USDA.

Table 53--Grapefruit: Bearing acreage and yield per acre, by States, 1969/70 to date

Season	Florida			California			Texas			Arizona			United States			
	Bearing acreage		Yield per acre	Bearing acreage		Yield per acre	Bearing acreage		Yield per acre	Bearing acreage		Yield per acre	Bearing acreage		Yield per acre	
	1,000 acres	Tons	1,000 acres	Tons	1,000 acres	Tons	1,000 acres	Tons	1,000 acres	Tons	1,000 acres	Tons	1,000 acres	Tons	1,000 acres	Tons
1969/70	98.7	16.11	12.8	13.36	40.0	8.10	6.1	16.56	157.6	13.87						
1970/71	107.2	17.01	12.1	13.55	37.6	10.74	6.3	12.86	163.2	15.15						
1971/72	112.6	17.75	12.6	14.21	35.0	10.51	6.4	12.66	166.6	15.77						
1972/73	114.6	16.84	13.1	14.43	35.0	13.49	8.0	10.63	170.7	15.68						
1973/74	115.8	17.65	14.3	10.77	35.0	12.23	8.2	8.05	173.3	15.53						
1974/75	115.4	16.44	15.8	14.30	33.1	8.82	9.3	9.57	173.6	14.42						
1975/76	117.9	17.71	16.4	14.27	33.1	12.93	9.6	10.42	177.0	14.10						
1976/77	119.3	18.36	16.6	15.06	35.1	14.13	10.2	9.41	181.2	16.73						
1977/78	120.3	18.15	17.4	15.75	40.1	11.87	10.8	8.89	188.6	16.07						
1978/79	124.6	17.05	19.5	10.26	39.8	9.05	8.9	8.09	192.8	14.30						
1979/80	126.4	18.43	21.3	11.50	43.8	7.21	8.4	11.43	199.9	14.94						
1980/81	125.6	17.02	21.8	12.06	41.5	6.46	8.1	11.11	197.0	14.01						
1981/82	127.8	15.99	22.0	9.14	41.1	13.53	8.1	9.51	199.0	14.46						
1982/83	128.6	13.02	21.7	10.97	42.2	10.62	6.8	12.79	199.3	12.28						
1983/84	119.6	14.53	21.9	10.82	43.2	2.96	6.8	10.74	191.5	11.36						
1984/85	115.5	16.19	21.1	13.70	19.1	(1)	1.1	13.52	162.8	13.85						
1985/86	105.1	18.91	20.9	12.73	13.5	0.67	5.7	13.51	145.2	16.11						
1986/87	106.0	19.96	20.7	14.73	13.5	5.70	5.9	11.86	146.1	17.58						
1987/88 2/	106.8	21.43	20.6	14.22	14.0	10.86	6.0	8.00	147.4	18.87						

1/ Due to the severe freeze of December 1983, no commercial supplies were harvested for the 1984/85 crop.

2/ Preliminary.

Sources: Citrus Summary, Florida Agricultural Statistics and Citrus Fruit Summary, NASS, USDA.

Table 54--Grapefruit: Production by States, 1969/70 to date

Crop years	Florida	California	Texas	Arizona	United States 1/
--1,000 short tons--					
1969/70	1,590	171	324	101	2,186
1970/71	1,824	164	404	81	2,473
1971/72	1,999	179	368	81	2,627
1972/73	1,930	189	472	85	2,676
1973/74	2,044	154	428	66	2,692
1974/75	1,897	226	292	89	2,504
1975/76	2,088	234	428	100	2,850
1976/77	2,190	250	496	96	3,032
1977/78	2,184	274	476	96	3,030
1978/79	2,125	200	360	72	2,757
1979/80	2,329	245	316	96	2,986
1980/81	2,138	263	268	90	2,758
1981/82	2,044	201	556	77	2,878
1982/83	1,574	238	448	87	2,447
1983/84	1,738	237	128	73	2,176
1984/85	1,870	289	(2)	96	2,255
1985/86	1,987	266	9	77	2,339
1986/87	2,116	305	77	70	2,568
1987/88 3/	2,288	293	152	48	2,781

1/ Some totals may not add do to rounding.

2/ Due to the severe freeze of December 1983, no commercial supplies were harvested for the 1984/85 crop.

3/ Preliminary.

Sources: Citrus Fruit Summary and July 1989 Crop Production, NASS, USDA.

Table 55--All grapefruit: Equivalent on-tree returns, by States, 1969/70 to date

Crop years	Florida			California			Texas			Arizona			United States		
	Fresh	Processing	All	Fresh	Processing	All	Fresh	Processing	All	Fresh	Processing	All	Fresh	Processing	All
1969/70	2.29	1.33	1.70	3.23	0.10	1.74	1.54	0.70	1.21	3.05	0.50	1.92	2.30	1.12	1.64
1970/71	2.42	1.63	1.91	4.17	0.41	2.52	1.48	0.80	1.20	3.05	0.60	0.84	2.41	1.38	1.80
1971/72	3.14	2.32	1.85	4.27	0.34	2.42	2.44	1.22	1.80	2.65	0.20	1.44	3.04	1.63	2.23
1972/73	3.10	1.47	2.08	3.78	0.14	1.75	2.10	1.21	1.80	2.40	0.30	1.22	2.96	1.29	1.98
1973/74	2.54	1.10	1.66	3.37	0.22	1.87	1.92	0.68	1.31	2.30	0.15	1.34	2.48	0.97	1.61
1974/75	3.03	3.19	0.76	1.72	0.12	1.50	2.55	0.90	1.95	2.70	0.10	1.40	2.96	0.66	1.72
1975/76	2.48	0.75	1.47	2.63	0.11	1.27	1.73	0.57	1.36	1.90	0.05	0.76	2.31	0.61	1.49
1976/77	2.60	1.10	1.58	2.90	0.49	1.58	1.88	0.74	1.34	2.50	0.40	0.99	2.47	0.88	1.49
1977/78	2.35	1.26	1.64	4.80	0.66	2.24	1.22	0.62	0.95	2.20	0.74	0.44	2.46	0.93	1.55
1978/79	2.23	1.83	2.41	6.59	0.67	3.70	2.00	0.66	1.26	4.34	0.62	1.69	3.53	1.48	2.35
1979/80	4.15	3.31	4.50	4.50	0.48	1.82	3.18	1.91	2.59	3.93	0.42	1.49	4.04	2.35	3.01
1980/81	5.25	2.76	3.60	6.34	0.45	3.33	3.70	2.31	3.27	4.91	0.20	2.72	5.15	2.36	3.56
1981/82	4.48	0.82	2.09	3.95	1.51	1.85	2.73	0.98	3.66	4.91	0.20	1.01	3.94	0.66	1.95
1982/83	3.61	0.52	1.96	4.05	1.31	1.74	1.75	0.14	1.26	2.73	1.32	1.11	3.18	0.22	1.79
1983/84	4.20	1.70	2.72	5.30	1.53	2.83	2.24	0.24	2.03	4.44	1.52	4.19	5.54	1.30	2.68
1984/85	5.62	2.66	3.67	8.18	0.44	5.63	(1)	(1)	(1)	6.64	0.38	4.18	6.39	2.31	4.01
1985/86	5.19	3.29	4.09	8.74	0.76	5.33	8.93	3.53	8.44	5.68	0.79	3.35	5.86	2.95	4.29
1986/87	5.89	4.32	4.98	7.71	0.64	4.62	7.88	5.40	7.02	5.98	0.64	3.55	6.29	3.81	4.96
1987/88 2/	6.85	4.45	5.48	7.01	0.41	4.77	6.93	3.32	5.97	4.58	0.44	2.91	6.83	4.07	5.39

1/ Due to the severe freeze of December 1983, no commercial supplies were harvested for the 1984/85 crop.

2/ Preliminary.

Sources: Florida Agricultural Statistics and Agricultural Prices Annual Summary 1988, NASS, USDA.

Table 56-Grapefruit: Utilization of production, by States, 1969/70 to date

Crop years	Florida		California		Arizona		Texas		United States 1/	
	Fresh	Processed	Fresh	Processed	Fresh	Processed	Fresh	Processed	Fresh	Processed
--1,000 short tons--										
1969/70	606	983	90	81	56	45	197	127	949	1,236
1970/71	636	1,187	92	72	58	58	166	987	987	1,484
1971/72	724	1,273	95	85	41	40	238	138	1,089	1,536
1972/73	724	1,205	94	95	37	48	250	254	1,109	1,566
1973/74	796	1,245	79	72	36	29	216	212	1,127	1,562
1974/75	799	1,097	116	110	44	44	186	106	1,145	1,357
1975/76	866	1,221	118	116	41	41	58	137	1,315	1,532
1976/77	697	1,492	138	112	46	50	259	237	1,140	1,891
1977/78	767	1,415	144	127	38	58	264	212	1,213	1,815
1978/79	841	1,284	120	79	34	38	160	200	1,155	1,602
1979/80	829	1,500	112	131	43	54	168	148	1,152	1,833
1980/81	730	1,408	146	116	51	58	186	82	1,152	1,645
1981/82	711	1,334	120	79	36	41	289	267	1,156	1,721
1982/83	778	1,826	144	94	52	35	312	136	1,286	1,160
1983/84	708	1,050	150	85	23	49	114	114	1,022	1,152
1984/85	637	1,233	202	85	34	62	(2)	(2)	1,901	1,351
1985/86	834	1,153	188	78	28	49	26	15	1,079	1,360
1986/87	890	1,226	192	113	44	62	62	15	1,188	1,380
1987/88 3/	982	1,308	204	89	32	16	111	41	1,329	1,452

1/ Some figures may not add due to rounding.
 2/ Due to the severe freeze of December 1983, no commercial supplies were harvested for the 1984/85 crop.

3/ Preliminary.

Source: Citrus Fruit Summary, NASS, USDA.

Table 57--Grapefruit processed, Florida, 1969/70 to date

Season	Frozen concen- trates	Chilled products		Other processed 1/	Total
		Juices	Sections and salads		
--1,000 boxes--					
1969/70	4,579	1,824	1,158	15,577	23,138
1970/71	6,819	2,348	1,091	17,682	27,940
1971/72	8,725	3,206	994	17,036	29,961
1972/73	8,212	2,908	1,209	16,025	28,354
1973/74	8,732	2,715	1,118	16,804	29,369
1974/75	7,779	3,332	967	13,725	25,803
1975/76	8,987	3,919	1,054	14,771	28,731
1976/77	13,020	4,331	934	16,822	35,107
1977/78	13,999	4,363	917	14,083	33,362
1978/79	13,274	3,162	771	13,001	30,208
1979/80	18,506	3,592	801	12,400	35,299
1980/81	19,490	2,844	645	10,154	33,133
1981/82	20,052	1,697	628	9,004	31,381
1982/83	13,977	1,314	417	5,379	21,087
1983/84	18,728	1,320	--	4,191	24,239
1984/85	22,996	1,065	--	4,951	29,012
1985/86	21,572	1,189	--	4,369	27,130
1986/87	24,143	2,295	--	2,424	28,862
1987/88	26,690	1,965	--	2,085	30,740

-- no longer reported.

1/ Includes cannery juices, blends, and sections and salads.

Source: Citrus Fruit Summary, NASS, USDA.

Table 58--Frozen concentrated grapefruit juice: Canner's stocks, pack, supplies, and movement, Florida, 1969/70 to date

Season 1/	Carryin	Pack	Supply	Movement	Ending
					inventory
--Million gallons-- 2/					
1969/70	1.4	4.3	5.7	5.2	0.5
1970/71	0.5	6.9	7.4	6.3	1.1
1971/72	1.1	8.8	9.9	7.1	2.8
1972/73	2.8	8.7	11.5	7.9	3.6
1973/74	3.6	9.0	12.6	7.7	4.9
1974/75	4.9	7.8	12.7	8.5	4.2
1975/76	4.2	9.5	13.7	10.4	3.3
1976/77	3.3	12.4	15.7	11.9	3.8
1977/78	3.8	14.0	17.8	13.6	4.2
1978/79	4.2	14.4	18.6	16.3	2.3
1979/80	2.3	19.6	21.9	17.0	4.9
1980/81	4.9	21.1	26.0	17.6	8.4
1981/82	8.4	21.9	30.3	18.9	11.4
1982/83	11.4	15.1	26.5	21.1	5.4
1983/84	5.4	20.2	25.6	21.6	4.0
1984/85	4.0	25.3	29.3	25.9	3.4
1985/86	3.4	26.2	29.6	26.2	3.4
1986/87	3.4	30.2	33.6	28.4	5.2
1987/88	5.2	35.5	38.7	28.9	9.8

1/ Season beginning December 1.

2/ 40 degree Brix.

Table 59--Chilled grapefruit juice: Canner's stocks, pack, supplies, and movement, Florida, 1969/70 to date

Season 1/	Carryin	Pack 2/	Supply	Movement	Ending inventory
--1,000 gallons--					
1969/70	1,067	9,430	10,497	10,128	369
1970/71	369	12,949	13,318	12,394	924
1971/72	924	17,358	18,282	15,261	3,021
1972/73	3,021	16,071	19,092	16,871	2,221
1973/74	2,221	17,376	19,597	17,916	1,681
1974/75	1,681	20,535	22,216	20,768	1,448
1975/76	1,448	24,538	25,986	24,583	1,403
1976/77	1,403	25,074	26,477	25,111	1,366
1977/78	1,366	25,460	26,826	24,920	1,906
1978/79	1,906	27,132	29,038	27,598	1,440
1979/80	1,440	28,674	30,114	27,364	2,750
1980/81	2,750	26,023	28,773	26,291	2,482
1981/82	2,482	22,943	25,425	23,224	2,201
1982/83	2,201	20,336	22,537	21,177	1,360
1983/84	1,360	27,642	29,002	27,336	1,666
1984/85	1,666	32,391	34,057	32,485	1,572
1985/86	1,572	33,989	35,561	33,600	1,961
1986/87	1,961	37,493	39,454	37,546	1,908
1987/88	1,908	36,884	38,792	36,267	2,525

1/ Season beginning October 1.

2/ Pack data are from fresh and frozen concentrated juice, but excludes reprocessed single-strength.

Source: Florida Citrus Processors Association.

Table 60--Canned grapefruit juice: Canners' stocks, pack, supplies, and movement, Florida, 1969/70 to date 1/

Season 2/	Carryin	Pack	Supply	Movement	Ending inventory
--1,000 cases, (24 No. 2's)-- 3/					
1969/70	1,634	16,423	18,057	17,238	819
1970/71	819	19,110	19,929	18,324	1,605
1971/72	1,605	20,873	22,478	18,168	4,310
1972/73	4,310	19,059	23,369	19,166	4,203
1973/74	4,203	20,576	24,779	18,780	5,999
1974/75	5,999	15,951	21,950	18,129	3,821
1975/76	3,821	18,439	22,260	18,623	3,637
1976/77	3,657	18,029	21,666	16,943	4,723
1977/78	4,723	16,789	21,512	17,951	3,561
1978/79	3,561	16,764	20,325	17,295	3,030
1979/80	3,030	16,604	19,634	16,222	3,412
1980/81	3,412	14,231	17,643	14,335	3,308
1981/82	3,508	15,725	19,033	14,767	4,266
1982/83	4,266	11,651	15,917	13,495	2,422
1983/84	2,522	9,513	11,935	10,231	1,704
1984/85	1,704	10,552	12,256	10,968	1,288
1985/86	1,288	9,948	11,236	9,721	1,515
1986/87	1,515	8,982	10,497	9,027	1,470
1987/88	1,470	7,724	9,194	7,872	1,322

1/ Single-strength.

2/ Season beginning October 1.

3/ Beginning 1976/77 includes reconstituted grapefruit juice.

Source: Florida Citrus Processors Association.

Table 61--Fresh grapefruit: Supply and utilization, 1970 to date

Season 1/	Supply			Utilization			Consumption Per capita Pounds
	Production	Imports	Total supply	Exports	Shipments	Total	
	--Million pounds--						
1969/70	1,900.0	8.0	1,908.0	230.2	1.6	1,676.2	8.17
1970/71	1,978.0	6.8	1,984.8	215.1	1.4	1,768.3	8.52
1971/72	2,180.0	14.1	2,194.1	401.4	2.1	1,790.6	8.53
1972/73	2,218.0	17.4	2,235.4	425.6	3.0	1,808.8	8.54
1973/74	2,262.0	14.2	2,276.2	518.2	2.2	1,755.8	8.21
1974/75	2,290.0	10.4	2,300.4	502.0	1.5	1,796.9	8.32
1975/76	2,634.0	9.4	2,643.4	628.0	1.4	2,014.0	9.24
1976/77	2,282.0	19.3	2,301.3	604.9	0.7	1,695.7	7.70
1977/78	2,430.0	7.0	2,437.0	584.5	0.9	1,851.6	8.32
1978/79	2,310.0	6.0	2,316.0	613.8	0.8	1,701.4	7.56
1979/80	2,304.0	6.7	2,310.7	483.7	1.2	1,825.8	8.02
1980/81	2,228.0	9.4	2,237.4	650.6	0.8	1,586.0	6.89
1981/82	2,316.0	3.9	2,319.9	574.3	0.5	1,745.1	7.51
1982/83	2,572.0	4.8	2,576.8	679.9	0.3	1,896.6	8.08
1983/84	2,046.0	2.1	2,048.1	547.7	0.4	1,500.0	6.33
1984/85	1,806.0	5.1	1,811.1	438.4	0.3	1,372.4	5.74
1985/86	2,158.0	5.5	2,163.5	594.3	0.1	1,569.1	6.49
1986/87	2,376.0	4.0	2,380.0	765.7	0.0	1,614.3	6.62
1987/88	2,658.0	11.0	2,669.0	1,018.5	0.0	1,650.5	6.71

1/ Season beginning September 1.

Source: Commodity Economics Division, ERS, USDA.

Table 62--Lemons: Bearing acreage and yield per acre, by States, 1969/70 to date

Crop years	California		Arizona		United States	
	Bearing acreage	Yield per acre	Bearing acreage	Yield per acre	Bearing acreage	Yield per acre
	1,000 acres	Tons	1,000 acres	Tons	1,000 acres	Tons
1969/70	37.4	12.49	9.7	11.01	47.1	12.20
1970/71	38.2	13.22	12.2	9.84	50.4	12.40
1971/72	39.1	13.22	12.9	9.07	52.0	12.19
1972/73	41.1	16.28	14.5	12.07	55.6	15.18
1973/74	44.7	12.66	19.9	5.53	64.6	10.46
1974/75	45.6	18.51	20.5	13.37	66.1	16.90
1975/76	47.3	12.22	20.3	4.53	67.6	9.91
1976/77	47.9	16.66	20.3	9.36	68.2	14.49
1977/78	49.0	15.73	20.9	10.53	69.9	14.19
1978/79	50.3	10.66	18.6	11.24	68.9	10.81
1979/80	49.8	13.51	20.3	5.71	70.1	11.26
1980/81	52.7	17.51	19.2	13.85	71.9	16.54
1981/82	54.2	12.97	21.6	11.06	75.8	12.43
1982/83	52.0	14.85	19.5	9.79	71.5	13.47
1983/84	51.4	12.74	18.3	8.31	69.7	11.59
1984/85	49.6	15.16	17.0	13.41	66.6	14.71
1985/86	48.8	11.74	16.5	7.49	65.3	10.68
1986/87	48.9	16.72	17.4	15.50	66.3	16.38
1987/88 1/	48.9	13.22	16.4	8.47	65.3	12.01

1/ Preliminary.

Source: Citrus Fruit Summary, NASS, USDA.

Table 63--Lemons: Production by States, 1969/70 to date

Season	Arizona	California	United States 1/
--1,000 short tons--			
1969/70	107	467	575
1970/71	120	505	625
1971/72	117	517	634
1972/73	175	669	844
1973/74	110	566	676
1974/75	274	844	1,117
1975/76	92	578	670
1976/77	190	798	988
1977/78	220	771	992
1978/79	209	536	745
1979/80	116	673	789
1980/81	266	923	1,189
1981/82	239	703	942
1982/83	192	771	963
1983/84	152	656	808
1984/85	228	752	980
1985/86	123	574	697
1986/87	270	817	1,087
1987/88 2/	139	646	785

1/ Some figures may not add due to rounding.

2/ Preliminary.

Sources: Citrus Fruit Summary and July 1989 Crop Production, NASS, USDA.

Table 64--All lemons: Equivalent on-tree returns, by States, 1969/70 to date

Crop years	California			Arizona			United States		
	Fresh	Processing	All	Fresh	Processing	All	Fresh	Processing	All
--Dollars/box--									
1969/70	5.30	0.64	3.64	6.60	0.65	3.49	5.49	0.64	3.61
1970/71	5.74	0.86	3.96	5.70	0.50	2.61	5.73	0.76	3.70
1971/72	5.50	1.12	3.79	5.30	0.60	2.60	5.47	0.99	3.57
1972/73	5.25	0.71	3.07	5.55	0.75	2.70	5.30	0.72	2.99
1973/74	7.05	0.58	4.66	7.60	0.70	4.83	7.14	0.60	4.69
1974/75	6.43	-0.62	2.43	5.30	0.25	1.60	6.24	-0.36	2.23
1975/76	6.75	-0.80	3.95	9.15	-0.95	4.79	7.05	-0.82	4.07
1976/77	4.20	-0.95	1.75	4.35	-0.95	1.27	4.22	-0.95	1.66
1977/78	6.57	-1.04	2.67	4.30	-1.36	0.88	6.14	-1.12	2.27
1978/79	9.43	-1.00	5.78	4.34	-0.98	1.73	8.24	-0.99	4.64
1979/80	9.00	1.02	5.13	9.90	-0.04	5.13	9.13	0.87	5.13
1980/81	6.22	-0.33	2.14	4.30	-0.24	1.21	5.84	-0.31	1.93
1981/82	7.64	-2.90	1.64	5.13	-2.90	0.39	7.03	-2.90	1.32
1982/83	6.20	-2.94	1.22	5.93	-2.92	1.25	6.14	-2.94	1.23
1983/84	8.16	-2.06	3.41	5.07	-3.12	1.63	7.54	-2.24	3.08
1984/85	10.58	-1.06	4.44	6.74	-1.91	1.54	9.80	-1.28	3.76
1985/86	14.28	-1.18	8.55	20.95	-1.23	12.28	15.43	-1.19	9.21
1986/87	10.54	-1.18	4.27	6.32	-1.10	1.35	9.74	-1.16	3.55
1987/88 1/	13.44	-2.12	7.12	12.24	-2.04	5.65	13.24	-2.10	6.86

1/ Preliminary.

Sources: Florida Agricultural Statistics and 1988 Agricultural Prices Annual Summary, NASS, USDA.

Table 65--Lemons: Utilization of production, by States, 1969/70 to date

Crop years	California		Arizona		United States	
	Fresh	Processed	Fresh	Processed	Fresh	Processed
--1,000 short tons--						
1969/70	300	167	51	56	351	223
1970/71	319	186	49	71	368	257
1971/72	315	201	50	67	365	269
1972/73	346	323	71	104	417	427
1973/74	357	209	66	44	423	253
1974/75	365	479	73	201	438	679
1975/76	363	214	52	40	416	254
1976/77	418	380	79	111	497	491
1977/78	376	395	87	133	464	528
1978/79	348	187	106	103	455	290
1979/80	347	326	60	56	407	382
1980/81	348	576	85	181	433	757
1981/82	303	400	98	141	401	542
1982/83	352	420	90	101	442	521
1983/84	351	304	88	64	439	368
1984/85	355	397	91	137	446	534
1985/86	361	213	75	48	436	261
1986/87	380	437	89	181	469	618
1987/88 1/	384	262	75	64	459	326

1/ Preliminary.

Source: Citrus Fruit Summary, NASS, USDA.

Table 66--Fresh lemons: Supply and utilization, 1970 to date

Season 1/	Supply			Utilization			Consumption Per capita Pounds	
	Production	Imports	Total supply	Exports	Shipments	Total		
--Million pounds--								
1969/70	702.0	0.0	702.0	282.8	0.5	418.7	2.04	
1970/71	736.0	0.0	736.0	270.2	0.6	465.2	2.24	
1971/72	732.0	0.0	732.0	340.5	0.6	390.9	1.86	
1972/73	834.0	0.1	834.1	424.5	0.8	408.8	1.93	
1973/74	846.0	0.0	846.0	416.6	1.4	428.0	2.00	
1974/75	876.0	0.0	876.0	454.4	0.3	421.3	1.95	
1975/76	832.0	0.0	832.0	418.4	0.4	413.2	1.90	
1976/77	994.0	0.4	994.4	531.3	1.4	461.7	2.10	
1977/78	926.0	0.7	926.7	454.9	0.4	471.4	2.12	
1978/79	910.0	0.3	910.3	465.1	1.4	443.8	1.97	
1979/80	814.0	0.6	814.6	370.2	0.6	443.8	1.95	
1980/81	866.0	0.1	866.1	393.6	0.3	472.2	2.05	
1981/82	802.0	3.9	805.9	314.1	0.5	491.3	2.11	
1982/83	884.0	8.7	892.7	323.2	0.7	568.8	2.42	
1983/84	878.0	7.1	885.1	337.2	0.3	547.6	2.31	
1984/85	892.0	10.5	902.5	328.6	1.0	572.9	2.39	
1985/86	872.0	32.3	904.3	266.3	0.1	637.9	2.64	
1986/87	938.0	21.5	959.5	332.7	0.0	626.8	2.57	
1987/88	918.0	12.2	930.2	306.9	0.0	623.3	2.53	

1/ Season beginning November 1.

Source: Commodity Economics Division, ERS, USDA.

Table 67--Limes: Acreage, yield per acre, production, utilization, season-average grower price, and value, Florida, 1969/70 to date

Season 1/	Bearing acreage	Yield per acre	Utilization of production			Grower price 3/	Value
			Total 2/	Fresh	Processed		
1,000 acres	Tons	-- 1,000 short tons --			Dollars/ton	1,000 dollars	
1969/70	3.9	8.18	32	16	15	4.11	2,983
1970/71	4.3	9.00	39	17	21	3.10	2,725
1971/72	4.5	10.76	48	21	28	3.89	4,279
1972/73	4.5	10.76	48	23	26	4.25	4,670
1973/74	4.4	10.50	46	21	25	5.10	5,351
1974/75	4.4	11.00	48	22	27	5.35	5,889
1975/76	4.4	10.80	48	26	22	6.70	7,235
1976/77	4.5	9.78	44	23	21	8.60	8,596
1977/78	3.8	5.33	20	15	5	15.72	7,229
1978/79	4.1	7.73	32	21	11	12.44	8,948
1979/80	4.7	10.30	48	27	21	8.18	8,996
1980/81	5.3	9.96	53	31	22	6.58	7,891
1981/82	6.4	8.94	57	28	30	7.88	10,238
1982/83	7.3	10.25	75	43	32	8.39	14,262
1983/84	7.0	9.05	63	36	27	7.46	10,736
1984/85	6.7	10.77	72	45	27	7.27	11,927
1985/86	6.8	11.16	76	39	37	7.94	13,692
1986/87	6.7	9.40	63	37	26	8.57	12,424
1987/88 4/	7.0	8.17	57	38	19	12.69	16,493

1/ Season beginning April 1.

2/ Some figures may not add due to rounding.

3/ Equivalent on-tree price.

4/ Preliminary.

Sources: Florida Agricultural Statistics and Citrus Fruit Summary, NASS, USDA.

Table 68--Almonds (shelled basis): Acreage, yield per acre, production, season-average grower price, and value, California, 1970 to date

Year	Bearing acreage	Yield/acre	Production	Grower price		Value		
				1,000 acres	Pounds	Million pounds	Cents/pound	1,000 dollars
1970	169.9	877	149			53.8		80,104
1971	187.8	863	162			53.8		87,100
1972	198.9	759	151			65.0		98,125
1973	213.6	726	155			128.8		199,660
1974	231.2	995	230			74.0		170,100
1975	248.8	748	186			63.7		118,400
1976	257.9	1,100	284			64.8		184,032
1977	276.5	1,130	313			84.5		264,485
1978	307.7	588	181			145.0		262,450
1979	324.1	1,160	376			153.0		575,280
1980	326.8	985	322			147.0		473,340
1981	326.2	1,250	408			78.0		299,520
1982	339.3	1,020	347			94.0		311,140
1983	356.2	679	242			104.0		231,920
1984	379.6	1,550	590			77.4		446,134
1985	409.2	1,140	465			80.0		360,640
1986 1/	415.6	602	250			192.0		461,568
1987 1/	417.0	1,580	660			100.0		648,000
1988 1/	407.0	1,450	590			105.0		600,075

1/ Price and value are based on the edible portion of the crop only. Included in production are inedible quantities of no value as follows: 1986-9,800 million pounds, 1987-12,000 and 1988-18,500.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 69--Almond: Supply and utilization (shelled basis), 1970 to date

Season 1/	Marketable production	Imports	Beginning stocks 2/	Total supply	Less current market reserve	Total salable supply --1,000 pounds--	Total delivered sales	Consumption		
								From salable supply	Exports 3/	From market reserve
1970/71	141,880	280	25,500	167,660	0	167,660	30,200	137,460	68,260	69,200
1971/72	153,970	300	30,200	184,470	0	184,470	18,700	165,770	90,030	75,740
1972/73	142,040	280	18,500	161,020	0	161,020	16,000	145,020	69,240	75,780
1973/74	146,430	120	16,000	162,550	0	162,550	30,100	132,450	55,000	55,000
1974/75	217,650	10	30,100	247,760	0	247,760	87,600	160,160	103,940	56,220
1975/76	170,180	50	87,600	257,830	0	257,830	59,000	198,830	123,550	75,380
1976/77	258,070	150	59,800	317,220	0	317,220	74,200	243,020	150,590	92,430
1977/78	284,800	130	74,200	359,130	0	359,130	94,150	264,950	165,900	99,030
1978/79	162,430	530	94,200	257,160	0	257,160	37,760	219,400	151,100	89,300
1979/80	348,510	230	37,600	386,500	0	386,500	78,950	301,550	224,220	83,350
1980/81	305,140	70	78,950	384,160	0	384,160	101,660	282,500	186,330	95,570
1981/82	383,130	40	101,660	484,830	0	484,830	161,010	323,820	207,890	115,930
1982/83	350,760	570	161,010	492,340	4/ 6,615	485,755	176,950	308,775	177,980	130,795
1983/84	221,790	180	176,950	398,920	4/ 6,654	392,266	90,620	301,664	171,700	129,946
1984/85	563,640	240	90	654,500	4/ 28,182	626,318	227,010	399,308	266,760	132,148
1985/86	444,000	460	227,010	671,470	4/ 44,400	627,070	144,280	482,790	332,190	150,600
1986/87	235,690	692	144,280	380,662	0	380,662	79,017	301,645	174,010	127,635
1987/88	634,600	1,494	79,017	114,220	715,111	5/ 116,071	600,881	484,820	343,300	141,520

1/ July 1-June 30.

2/ Salable carryover plus unallocated market reserve from previous year.

3/ Excludes market reserve allocated to export in 1982-1985.

4/ Market reserve allocated to domestic consumption and export in current marketing year.

5/ Excludes unallocated market reserve.

Source: Almond Board of California.

Table 70--Filberts (hazelnuts)(in-shell): Bearing acreage and yield per acre, by States, 1970 to date

Year	Oregon		Washington		United States	
	Bearing acreage	Yield/acre	Bearing acreage	Yield/acre	Bearing acreage	Yield/acre
	Acres	Tons	Acres	Tons	Acres	Tons
1970	15,800	0.55	500	1.02	16,300	0.57
1971	16,100	0.68	500	0.74	16,600	0.68
1972	16,500	0.58	500	1.10	17,000	0.60
1973	16,500	0.71	500	1.10	17,000	0.72
1974	16,400	0.39	500	0.60	16,900	0.40
1975	17,400	0.68	400	0.80	17,800	0.68
1976	17,500	0.40	400	0.55	17,900	0.40
1977	17,200	0.66	400	0.88	17,600	0.67
1978	17,200	0.80	400	0.88	17,600	0.80
1979	17,200	0.74	400	0.75	17,600	0.74
1980	21,600	0.70	400	0.75	22,000	0.70
1981	21,600	0.67	400	0.75	22,000	0.67
1982	21,600	0.85	400	1.00	22,000	0.85
1983	20,900	0.38	400	0.50	21,300	0.39
1984	21,600	0.61	400	0.50	22,000	0.61
1985	22,900	1.06	400	0.75	23,300	1.06
1986	24,500	0.61	400	0.50	24,900	0.61
1987	25,400	0.85	400	0.75	25,800	0.84
1988 1/	26,100	0.62	400	0.50	26,500	0.62

1/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 71--Filberts (hazelnuts) (in-shell): Production, season-average grower price, and value, by States, 1970 to date 1/

Year	Oregon			Washington			Oregon and Washington		
	Production	Price	Value	Production	Price	Value	Production	Price	Value
				Tons	Dollars/ton	1,000 dollars	Tons	Dollars/ton	1,000 dollars
1970	8,750	570	4,988	510	571	291	9,260	570	5,279
1971	11,000	414	4,554	370	416	154	11,370	414	4,708
1972	9,500	508	4,877	550	509	280	10,150	508	5,157
1973	11,700	570	6,669	550	635	349	12,250	573	7,018
1974	6,400	560	3,584	300	565	170	6,700	560	3,754
1975	11,800	610	7,198	320	595	190	121,200	610	7,388
1976	6,750	640	4,448	220	635	140	7,170	640	4,588
1977	11,400	687	7,832	350	674	236	11,750	687	8,068
1978	13,700	805	11,029	350	835	292	14,050	806	11,321
1979	12,700	951	12,078	300	970	291	13,000	951	12,369
1980	15,100	1,151	17,386	300	1,181	354	15,400	1,152	17,740
1981	14,400	786	11,319	300	770	231	14,700	786	11,550
1982	18,400	680	12,512	400	677	271	18,800	680	12,783
1983	8,000	554	4,432	200	720	144	8,200	558	4,576
1984	13,200	617	8,144	200	875	175	13,400	621	8,319
1985	24,300	677	16,451	300	957	287	24,600	680	16,738
1986	14,900	724	10,788	200	895	179	15,100	726	10,967
1987	21,500	956	20,554	300	1,160	348	21,800	959	20,902
1988 2/	16,300	853	13,904	200	891	178	16,500	853	14,082

1/ Production is the quantity sold or utilized. Excludes unharvested production for Oregon, 500 tons in 1974.
 2/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 72--Filberts (hazelnuts): Supply and utilization (shelled basis), 1970 to date

Season 1/	Marketable production	Imports	Beginning stocks	Total supply	Ending stocks	Total use	Consumption		
							Exports	Total	Per capita Pounds
--1,000 pounds--									
1970/71	6,758	6,111	351	13,220	1,591	11,629	615	11,014	0.05
1971/72	8,300	4,491	1,591	14,382	410	13,972	566	13,406	0.06
1972/73	8,303	7,211	410	15,924	684	15,240	655	14,585	0.07
1973/74	9,678	13,813	684	24,175	1,529	22,646	547	22,099	0.10
1974/75	4,556	4,013	1,529	10,098	107	9,991	549	9,442	0.04
1975/76	9,284	9,590	107	18,981	775	18,206	720	17,486	0.08
1976/77	5,621	10,941	775	17,337	566	16,771	1,144	15,627	0.07
1977/78	9,142	7,743	566	17,451	866	16,585	1,717	14,868	0.07
1978/79	10,790	10,329	866	21,985	1,344	20,641	2,874	17,767	0.08
1979/80	10,348	4,513	1,344	16,205	1,046	15,159	6,651	8,508	0.04
1980/81	12,320	4,001	1,046	17,367	1,124	16,243	4,729	11,514	0.05
1981/82	11,848	3,953	1,124	16,925	965	15,960	3,949	12,011	0.05
1982/83	15,190	6,778	965	22,933	3,046	19,887	3,441	16,446	0.07
1983/84	5,756	7,156	3,046	15,958	678	15,280	3,048	12,232	0.05
1984/85	9,568	9,011	678	19,257	552	18,705	2,657	16,048	0.07
1985/86	19,434	4,195	552	24,181	1,273	22,908	6,666	16,242	0.07
1986/87	11,627	3,721	1,273	16,621	404	16,217	6,965	9,252	0.04
1987/88	18,007	3,863	404	22,274	947	21,327	6,810	14,517	0.06

1/ Season beginning August 1.

Source: Commodity Economics Division, ERS, USDA.

Table 73--Walnuts (English), (in-shell): Production, season-average grower price, and value, California, 1970 to date

Year	Bearing acreage	Yield/ acre	Production	Grower price		
				Dollars/ ton	1,000 dollars	
Acres						
			--Tons--			
1970	146,500	0.74	108,000	407	43,956	
1971	150,400	0.90	135,000	420	56,700	
1972	157,600	0.74	116,000	564	65,424	
1973	158,200	1.10	174,000	605	105,270	
1974	163,200	0.95	155,000	419	64,945	
1975	165,800	1.19	198,000	456	90,288	
1976	169,800	1.08	183,000	627	114,741	
1977	176,300	1.09	192,000	725	139,200	
1978	181,400	0.88	160,000	1,302	208,320	
1979	179,200	1.16	208,000	847	176,176	
1980	179,900	1.10	197,000	936	184,392	
1981	175,100	1.29	225,000	1,014	228,150	
1982	178,000	1.31	234,000	1,020	238,680	
1983	176,800	1.13	199,000	631	125,569	
1984	178,200	1.20	213,000	730	155,490	
1985	178,600	1.23	219,000	798	174,762	
1986	179,800	1.00	180,000	1,080	194,400	
1987	176,000	1.40	247,000	984	243,048	
1988 1/	174,000	1.18	206,000	927	190,962	

1/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 74--Walnuts: Supply and utilization (shelled basis), 1970 to date

Season 1/	Marketable product on	Imports	Beginning stocks	Total supply	Ending stocks	Total use	Exports			Consumption	
							--1,000 pounds--			Total	Per capita
1970/71	81,369	529	25,815	107,713	26,429	81,284	6,866			74,418	0.36
1971/72	99,374	457	26,429	126,260	27,995	98,265	12,710			85,555	0.41
1972/73	84,074	1,402	27,995	113,471	18,261	95,210	13,197			82,033	0.39
1973/74	130,895	288	18,261	149,424	46,726	102,698	17,315			85,383	0.40
1974/75	105,851	40	46,726	152,617	41,027	111,590	20,885			90,705	0.42
1975/76	139,455	152	41,027	180,634	34,353	146,281	35,086			111,195	0.51
1976/77	137,379	68	34,353	171,800	22,329	149,471	36,274			113,197	0.52
1977/78	154,036	147	22,329	176,512	21,058	155,454	38,206			117,248	0.53
1978/79	114,941	1,065	21,058	137,064	24,046	113,018	25,918			87,100	0.39
1979/80	162,260	320	24,046	186,626	40,521	146,105	40,233			105,872	0.47
1980/81	148,550	9	40,521	189,080	30,327	158,753	42,912			115,841	0.51
1981/82	175,520	9	30,327	205,856	37,925	167,931	50,885			117,046	0.51
1982/83	182,996	299	37,925	221,220	71,304	149,916	39,021			110,895	0.47
1983/84	165,220	77	71,304	236,601	57,045	179,556	41,034			138,522	0.59
1984/85	144,840	315	57,045	202,200	42,556	159,644	36,558			123,086	0.52
1985/86	149,880	128	42,556	192,564	51,999	140,565	38,421			102,144	0.42
1986/87	128,960	2,655	51,999	183,614	28,316	155,298	45,959			109,339	0.45
1987/88	209,459	470	28,316	238,245	60,049	178,196	60,156			118,040	0.48

1/ Season beginning August 1.

Source: Commodity Economics Division, ERS, USDA.

Table 75--Macadamia nuts (in-shell): Acreage, yield per acre, production, season-average grower price, and value, Hawaii, 1970 to date

Year	Bearing acreage	Yield/ acre	Production	Grower price	Value
	Acres	Pounds	1,000 pounds	Cents/ pound	1,000 dollars
1970	4,100	3,223	13,216	21.7	2,868
1971	4,900	2,949	14,448	24.7	3,569
1972	5,000	2,622	13,110	23.3	3,055
1973	5,100	2,377	12,124	25.5	3,092
1974	5,800	2,822	16,370	32.0	5,238
1975	6,100	2,999	18,210	31.6	5,754
1976	6,300	3,014	18,990	36.9	7,007
1977	6,300	3,124	19,680	40.8	8,029
1978	9,200	2,280	20,280	53.8	11,287
1979	9,600	2,777	26,660	62.9	16,769
1980	10,000	3,339	33,390	72.4	24,174
1981	10,000	3,346	33,360	79.3	26,454
1982	10,200	3,600	36,720	73.9	27,136
1983	10,600	3,436	36,420	65.7	23,928
1984	12,000	3,142	37,700	69.2	26,088
1985	13,500	3,111	42,000	72.5	30,450
1986	14,400	3,060	44,000	80.0	35,200
1987	15,600	2,740	42,700	84.0	35,868
1988 1/	16,600	2,740	45,500	90.0	40,950

1/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 76--Pistachios 1/ (in-shell): Production, season-average grower price, and value, California, 1977 to date

Year	Bearing acreage	Yield/ acre	Production	Grower price	Value
	Acres	Pounds	1,000 pounds	Cents/pound	1,000 dollars
1977	1,700	2,647	4,500	104.0	4,680
1978	3,500	714	2,500	124.0	3,100
1979	25,400	677	17,200	160.0	27,520
1980	27,000	996	26,900	205.0	55,145
1981	28,100	516	14,500	136.0	19,759
1982	29,900	1,452	43,400	145.0	63,068
1983	31,100	849	26,400	142.0	37,488
1984	31,100	2,029	63,100	98.0	61,838
1985	32,300	839	27,100	135.0	36,471
1986	34,200	2,190	74,900	106.0	79,394
1987	41,000	807	33,100	143.0	47,333
1988 2/	44,100	2,130	94,000	111.0	104,340

1/ Estimated beginning 1977.

2/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 77--Pistachios: Supply and utilization (shelled basis), 1977 to date

Season 1/	Marketable production	Imports	Beginning stocks	Total supply	Ending stocks	Total use	Exports	Total	Consumption	
									-1,000 pounds--	Pounds
1977/78	1,520	9,528	0	11,048	2,080	8,968	320	8,648	0.04	
1978/79	6,840	6,853	2,080	9,783	1,080	8,703	160	8,543	0.04	
1979/80	5,240	9,219	1,080	15,539	5,000	10,539	1,400	9,139	0.04	
1980/81	16,372	1,175	3,000	22,547	3,405	19,142	1,840	17,302	0.08	
1981/82	16,788	1,817	3,405	21,010	577	12,433	3,406	9,027	0.04	
1982/83	21,163	2,819	577	24,559	4,805	19,754	1,831	17,923	0.08	
1983/84	14,346	6,683	4,805	25,834	3,086	22,748	2,767	19,981	0.08	
1984/85	37,641	7,284	3,086	48,011	5,710	46,011	1,654	40,647	0.17	
1985/86	22,477	14,825	5,710	43,062	4,668	38,394	2,172	36,222	0.15	
1986/87	43,389	4,668	53,414	10,589	42,825	3,457	3,457	39,368	0.16	
1987/88	16,831	2,166	10,589	29,586	2,589	26,997	4,858	22,139	0.09	

1/ Season beginning September 1.

Source: Commodity Economics Division, ERS, USDA.

Table 78--Pecans (in-shell): Production, season-average grower price, and value, United States, 1970 to date

Year	Improved varieties 1/ 2/		Native and seedling		All pecans 2/						
	Production	Price	Value	Production	Price	Value					
				1,000 pounds	Cents/ pound	1,000 pounds	Cents/ pound	1,000 pounds	Cents/ pound	1,000 pounds	1,000 dollars
1970	81,700	42.1	34,403	73,380	35.6	26,125	155,100	39.0	60,528		
1971	142,300	35.4	50,369	103,900	29.8	30,200	246,900	33.0	81,286		
1972	88,990	46.1	41,028	94,110	38.9	36,608	183,100	42.4	77,636		
1973	145,200	42.6	61,793	130,500	30.3	39,494	275,700	36.7	101,287		
1974	86,800	52.5	45,542	50,500	38.2	19,199	137,100	47.2	64,741		
1975	110,100	46.5	51,164	136,700	34.4	47,036	246,800	39.8	98,200		
1976	77,300	87.5	67,603	25,800	63.5	16,380	103,100	81.5	83,983		
1977	137,900	66.0	91,015	98,700	46.0	45,444	236,600	57.7	136,459		
1978	164,500	64.5	106,170	85,400	52.8	45,080	249,900	60.5	151,250		
1979	101,100	70.0	70,742	109,500	41.9	45,921	210,600	55.4	116,663		
1980	128,500	84.8	109,015	55,000	62.3	34,254	183,500	78.1	143,269		
1981	174,550	64.7	112,987	164,550	43.7	71,855	339,100	54.5	184,842		
1982	169,000	72.6	122,776	49,600	49.8	24,715	218,600	67.5	147,491		
1983	167,250	67.7	113,199	102,750	44.0	45,190	270,000	58.7	158,389		
1984	169,230	68.2	115,406	63,170	46.0	29,424	232,400	62.3	144,830		
1985	152,500	79.1	120,582	91,900	49.7	45,706	244,400	68.0	166,288		
1986	182,650	79.3	144,765	90,050	57.6	51,884	272,000	72.1	196,649		
1987	179,650	60.1	107,953	82,550	37.7	31,156	262,200	53.1	139,109		
1988	3/ 185,300	62.6	116,070	122,700	41.1	50,448	308,000	54.1	166,518		

1/ Budded, grafted, or topworked varieties.

2/ California included in 1988.

3/ Preliminary.

Source: Noncitrus Fruit and Nuts Midyear Supplement, NASS, USDA.

Table 79--Pecans: Supply and utilization (shelled basis), 1970 to date

Season 1/	Production	Imports	Beginning stocks	Total supply	Ending stocks	Total use	Consumption		
							Exports	Total	Per capita pounds
--1,000 pounds--									
1970/71	68,744	1,190	33,200	103,134	17,431	85,703	2,432	83,271	0.40
1971/72	110,632	682	17,431	128,745	34,031	94,714	2,064	92,650	0.44
1972/73	80,257	42	34,031	114,330	20,911	93,419	2,301	91,118	0.43
1973/74	122,190	199	20,911	143,300	49,360	93,940	2,652	91,288	0.43
1974/75	62,514	6	49,360	111,880	24,149	87,731	3,252	84,479	0.39
1975/76	106,996	1	24,149	131,146	42,646	88,500	3,659	84,841	0.39
1976/77	48,454	2,121	42,646	93,221	17,387	75,834	2,628	73,206	0.33
1977/78	106,456	553	17,387	124,396	38,199	86,197	4,065	82,132	0.37
1978/79	114,702	796	38,199	153,697	63,192	90,505	3,411	87,094	0.39
1979/80	92,160	331	63,192	155,683	47,245	108,438	3,260	105,178	0.46
1980/81	85,150	952	47,245	133,347	30,852	102,495	4,665	97,830	0.43
1981/82	149,804	849	30,852	181,505	73,406	108,099	4,194	103,905	0.45
1982/83	102,848	1,625	73,406	177,879	57,289	120,590	7,298	113,292	0.48
1983/84	122,670	5,789	57,289	185,748	69,715	116,033	3,376	112,657	0.48
1984/85	108,620	1,934	69,715	180,269	50,370	129,899	2,720	127,179	0.53
1985/86	110,868	14,298	50,370	175,536	59,952	115,584	2,264	113,320	0.47
1986/87	125,544	10,918	59,952	196,414	63,423	132,991	2,755	130,236	0.54
1987/88	121,194	12,966	63,423	197,583	62,520	135,063	4,021	131,042	0.53

1/ Season beginning July 1.

Source: Commodity Economics Division, ERS, USDA.

Table 80--Fresh noncitrus fruits: Exports,
United States, 1970 to date

Calendar year	Apples	Grapes	Pears
--Metric tons--			
1970	49,403	105,581	19,645
1971	50,439	127,649	23,510
1972	57,889	98,819	26,629
1973	81,135	101,750	36,994
1974	85,398	105,810	32,629
1975	109,825	110,463	32,357
1976	115,737	104,513	32,892
1977	143,412	103,002	35,090
1978	144,143	98,567	35,791
1979	210,161	114,180	39,317
1980	250,992	117,881	44,021
1981	302,229	111,835	53,323
1982	257,057	111,682	41,872
1983	256,650	110,822	30,694
1984	206,439	110,856	31,560
1985	176,868	91,446	27,226
1986	180,972	108,659	37,024
1987	209,309	107,683	37,628
1988	289,602	133,225	50,081

Source: Bureau of Census, Department of Commerce.

Table 81--Fresh noncitrus fruits: Imports, United States, 1970 to date

Calendar year	Apples	Bananas	Grapes	Pineapples
--Metric tons--				
1970	33,977	1,805,114	15,933	34,246
1971	43,482	1,878,829	12,631	34,110
1972	44,082	1,891,864	11,754	39,100
1973	42,365	1,904,710	9,512	35,607
1974	36,101	1,986,227	15,130	36,877
1975	38,993	1,910,428	15,799	48,398
1976	52,709	2,102,943	21,864	54,885
1977	49,437	2,116,787	29,802	65,317
1978	60,007	2,237,618	31,425	66,587
1979	74,889	2,337,807	41,522	70,035
1980	71,154	2,352,509	44,499	68,538
1981	67,908	2,458,345	57,601	62,823
1982	71,870	2,583,590	95,129	65,499
1983	98,198	2,444,714	127,544	77,292
1984	103,630	2,577,206	146,314	60,970
1985	124,106	2,968,752	195,838	53,964
1986	131,745	2,978,395	207,097	77,231
1987	133,421	2,940,544	249,158	67,268
1988	122,498	2,873,912	309,260	81,738

Source: Bureau of Census, Department of Commerce.

Table 82--Fresh citrus fruits: Domestic exports, United States, 1969/70 to date

Season 1/	Oranges	Grapefruit	Lemons
--Metric tons--			
1969/70	258,211	104,439	123,621
1970/71	236,806	95,078	131,906
1971/72	291,560	177,505	155,808
1972/73	272,146	192,146	192,540
1973/74	312,100	235,029	188,953
1974/75	478,889	227,689	206,110
1975/76	440,153	284,877	189,792
1976/77	397,771	274,377	240,997
1977/78	334,973	265,162	206,337
1978/79	300,297	278,439	210,951
1979/80	459,404	271,436	167,918
1980/81	417,882	295,130	178,559
1981/82	354,066	260,513	142,489
1982/83	461,073	308,396	146,598
1983/84	367,628	262,023	152,961
1984/85	407,466	198,843	149,053
1985/86	394,162	269,592	130,090
1986/87	396,542	347,316	150,926
1987/88	334,770	461,976	139,205

1/ Year beginning November for oranges, September for grapefruit, and August for lemons.

Source: Foreign Agricultural Service, USDA.

Table 83--Frozen concentrated orange juice: Imports
United States, 1969/70 to date

Season 1/	Brazil	Others	United States
--1,000 gallons-- 2/			
1969/70	1,308	153	1,461
1970/71	15,413	3,930	19,343
1971/72	29,210	8,865	38,075
1972/73	12,924	7,300	20,224
1973/74	12,699	5,549	18,248
1974/75	28,214	4,832	33,046
1975/76	29,755	1,647	31,402
1976/77	33,749	14,177	47,926
1977/78	139,451	11,290	150,741
1978/79	152,310	7,708	160,018
1979/80	97,676	2,338	100,014
1980/81	203,104	11,127	214,231
1981/82	373,988	22,084	396,072
1982/83	337,164	27,605	364,769
1983/84	510,094	23,476	533,570
1984/85	578,177	18,456	596,633
1985/86	500,467	45,657	546,124
1986/87	500,193	50,608	550,801
1987/88	351,017	56,697	407,714

1/ Season beginning December 1.

2/ Single-strength.

Source: Foreign Agricultural Service, USDA.

Table 84--Tree nuts: Exports, United States, 1970 to date

Calendar year	Almonds		Walnuts		Pecans		Filberts	
	Shelled	In-shell	Shelled	In-shell	Shelled	In-shell	Shelled	In-shell
--Metric tons--								
1970	27,199	1,604	1,679	5,042	658	581	124	405
1971	32,236	1,963	1,510	9,595	659	249	117	192
1972	30,860	2,188	2,388	14,103	876	481	123	315
1973	24,044	1,458	1,569	16,708	772	335	167	423
1974	36,077	3,065	2,494	19,951	1,105	763	97	763
1975	42,628	2,352	2,788	35,545	1,368	482	114	595
1976	55,030	720	4,775	39,446	1,193	546	245	821
1977	60,530	1,110	5,041	31,744	1,011	462	226	1,353
1978	59,883	1,398	3,760	27,259	1,166	1,454	663	1,365
1979	53,892	1,441	2,980	29,554	1,063	728	1,255	2,675
1980	80,976	1,602	4,916	44,936	1,413	872	1,195	3,808
1981	70,334	2,756	4,331	48,105	1,560	1,200	869	2,042
1982	67,259	4,974	4,002	37,595	1,237	4,161	750	1,412
1983	57,457	2,959	4,342	27,073	1,026	1,689	1,104	1,663
1984	79,126	2,669	6,190	39,531	730	1,198	663	1,322
1985	129,437	6,063	7,423	44,048	593	809	1,036	1,420
1986	102,185	3,640	8,538	45,155	761	708	3,124	3,778
1987	92,844	4,770	7,375	55,854	1,058	777	1,461	3,935
1988	141,266	12,427	9,344	48,024	1,639	1,564	1,276	2,220

Source: Bureau of Census, Department of Commerce.

Table 85--Fruit, per capita consumption: Fresh-weight equivalent, 1970 to date 1/

Year	Citrus			Noncitrus			All fruit				
	Fresh	Canned juice	Chilled juice	Frozen juice	Total 2/	Fresh	Canned	Canned juice	Frozen fruit	Dried	Total 2/
--Pounds--											
1970	28.78	10.50	9.36	40.95	89.59	50.60	13.63	3.53	3.67	9.69	81.12
1971	29.13	10.78	9.54	47.46	96.91	51.33	13.68	3.68	4.05	9.61	82.35
1972	27.45	10.37	10.59	54.48	102.70	47.52	13.19	2.63	3.99	7.22	79.26
1973	27.43	11.17	10.45	53.40	102.45	50.43	13.11	3.05	3.86	9.12	74.55
1974	27.40	10.74	10.37	57.89	106.40	51.64	12.75	2.87	3.04	7.97	79.57
1975	29.38	10.58	11.31	57.43	118.70	55.56	12.86	3.28	8.63	78.92	182.02
1976	29.04	10.35	12.24	65.48	117.11	54.81	12.85	3.47	3.38	3.51	85.32
1977	26.27	9.91	11.39	67.50	115.06	55.10	12.94	3.00	3.51	9.01	204.41
1978	26.56	11.10	12.16	57.64	10.46	57.19	12.00	3.00	3.61	7.37	198.61
1979	24.68	11.21	10.96	61.49	108.34	59.41	11.20	3.02	2.95	9.01	83.55
1980	28.85	10.23	11.75	61.68	112.52	61.08	11.21	3.27	3.37	8.66	191.53
1981	24.98	9.76	8.52	61.37	104.33	61.79	10.01	3.44	3.17	8.66	193.92
1982	24.73	7.88	7.04	69.65	109.30	62.15	10.32	2.90	3.22	10.60	192.41
1983	29.30	6.03	8.30	76.41	120.04	62.69	9.06	2.82	3.21	10.94	198.48
1984	23.99	5.70	7.59	65.66	102.75	67.56	9.17	2.32	3.32	88.73	208.77
1985	23.44	4.57	6.46	74.64	109.10	66.48	9.26	2.36	3.60	10.15	196.65
1986	26.67	4.14	7.63	78.81	117.25	69.18	9.59	2.24	3.91	11.48	200.94
1987	26.37	4.04	9.03	73.38	112.82	75.07	9.65	2.40	4.25	10.11	96.39
1988 3/	26.47	3.39	10.25	73.50	113.61	70.44	9.72	2.58	4.15	10.83	213.64
											214.29
											211.33

1/ Unless otherwise noted, data represent a calendar year (adjustments to a calendar year, when necessary, were made by combining proportional parts of each season or pack year involved). 2/ Some figures may not add due to rounding.
 3/ Preliminary.

Source: Commodity Economics Division, ERS, USDA.

Table 86--Fresh fruit: Per capita consumption, 1970 to date 1/

Year	Citrus fruit						Noncitrus fruit						
	Oranges	Tangerines	Tangelos	Lemons	Limes	Grapefruit	Total 4/	Apples	Apricots	Avo-cados	Bananas	Cherries	Cran-berries
--Pounds--													
1970	16.16	1.60	0.61	2.04	0.19	8.18	28.78	17.01	0.12	0.44	17.38	0.50	0.18
1971	15.72	1.78	0.70	2.24	0.18	8.51	29.13	16.41	0.13	0.83	18.05	0.66	0.19
1972	14.48	1.63	0.73	1.86	0.22	8.53	27.45	15.53	0.08	0.44	17.92	0.38	0.15
1973	14.44	1.69	0.61	1.93	0.22	8.54	27.43	16.20	0.09	0.83	18.16	0.73	0.19
1974	14.42	1.88	0.67	2.00	0.22	8.21	27.40	16.42	0.06	0.68	18.49	0.58	0.15
1975	15.88	2.00	0.99	1.95	0.24	8.32	29.38	19.46	0.08	1.16	17.64	0.69	0.14
1976	14.74	1.98	0.93	1.90	0.25	9.24	29.04	16.93	0.10	0.79	19.26	0.82	0.19
1977	13.44	1.84	0.94	2.10	0.25	7.70	26.27	16.55	0.09	1.27	19.21	0.63	0.18
1978	13.45	1.62	0.81	2.12	0.24	8.32	26.56	18.00	0.07	1.02	20.20	0.54	0.18
1979	12.61	1.61	0.68	1.97	0.25	7.56	24.68	17.24	0.08	1.23	21.98	0.59	0.13
1980	15.84	1.97	0.71	1.95	0.37	8.01	28.85	19.23	0.10	0.82	20.79	0.70	0.14
1981	13.57	1.26	0.81	2.05	0.40	6.89	24.98	17.23	0.10	2.16	21.50	0.55	0.21
1982	12.71	1.32	0.69	2.11	0.39	7.51	24.73	17.67	0.08	1.50	22.53	0.53	0.21
1983	16.08	1.43	0.72	2.42	0.57	8.08	29.30	18.42	0.08	1.95	21.21	0.76	0.14
1984	12.79	1.39	0.61	2.31	0.56	6.33	23.99	18.69	0.13	2.22	22.13	0.73	0.12
1985	12.37	1.73	0.55	2.39	0.66	5.74	23.44	17.47	0.17	1.88	23.41	0.63	0.13
1986	15.30	1.04	0.50	2.64	0.70	6.49	26.67	18.28	0.10	0.99	25.72	0.49	0.14
1987	14.82	1.23	0.48	2.57	0.65	6.62	26.37	21.28	0.08	2.37	24.92	0.73	0.12
1988 5/	14.94	1.21	0.51	2.53	0.58	6.70	26.47	18.90	0.11	1.62	24.15	0.51	0.15
--Pounds--													
Figs	Grapes	Kiwi-fruit 2/	Nectar-ines	Peaches	Pears	Pine-apples	Papayas	Plums and prunes	Strawberries	Miscel-laneous fruit 3/	Total non-citrus 4/	Total fruit 4/	
1970	0.01	2.50	N.A.	0.58	5.82	1.90	0.70	0.12	1.47	1.73	0.14	50.60	79.38
1971	0.01	2.23	N.A.	0.61	5.66	2.54	0.64	0.10	1.28	1.83	0.16	51.33	80.46
1972	0.03	2.22	N.A.	0.82	3.88	2.28	0.78	0.11	1.08	1.67	0.15	47.52	74.97
1973	0.04	2.68	N.A.	0.72	4.26	2.57	0.92	0.14	1.14	1.58	0.18	50.43	77.86
1974	0.05	2.85	N.A.	0.95	4.34	2.48	0.90	0.16	1.50	1.83	0.20	51.64	79.04
1975	0.03	3.20	N.A.	0.89	4.98	2.74	1.03	0.16	1.33	1.80	0.23	55.56	84.94
1976	0.02	3.23	N.A.	1.00	5.14	2.84	1.15	0.20	1.25	1.66	0.23	54.81	83.85
1977	0.03	3.17	N.A.	1.25	5.10	2.38	1.36	0.25	1.55	1.91	0.17	55.10	81.37
1978	0.03	3.09	N.A.	1.15	5.00	2.34	1.45	0.25	1.56	2.16	0.15	57.19	83.75
1979	0.03	3.54	N.A.	1.36	5.44	2.31	1.47	0.17	1.70	1.90	0.14	59.41	84.09
1980	0.02	3.81	N.A.	1.62	5.67	2.64	1.50	0.21	1.60	2.01	0.22	61.08	89.93
1981	0.01	4.01	N.A.	1.52	5.52	2.85	1.57	0.22	1.78	2.24	0.32	61.79	86.77
1982	0.01	5.81	N.A.	1.41	3.95	2.90	1.66	0.16	1.09	2.44	0.20	62.15	86.88
1983	0.01	5.45	0.15	1.50	4.06	3.05	1.70	0.18	1.49	2.40	0.14	62.69	91.99
1984	0.02	6.48	0.15	1.49	5.41	2.63	1.52	0.26	1.97	3.07	0.54	67.56	91.55
1985	0.01	7.45	0.18	1.68	3.99	2.86	1.48	0.18	1.53	3.09	0.54	66.48	89.92
1986	0.01	7.27	0.20	1.35	4.72	3.04	1.75	0.18	1.36	3.00	0.58	69.18	95.85
1987	0.01	7.63	0.28	1.50	4.76	3.63	1.71	0.18	2.03	3.22	0.62	75.07	101.44
1988 5/	0.01	7.40	0.26	1.53	5.12	3.10	1.81	0.15	1.76	3.46	0.40	70.44	96.91

N.A.= not available.

1/ All data are on calendar year basis except for citrus fruits, October or November; apples, August; grapes and pears, July; prior to years indicated. 2/ Reported separately beginning 1983. 3/ Includes mangos, olives, persimmons, pomegranates, kiwifruit and other fruit. 4/ Some figures may not add due to rounding. 5/ Preliminary.

Note: Numbers have been revised for apples, grapes, and pears to reflect per capita consumption for crop season rather than calendar year.

Source: Commodity Economics Division, ERS, USDA.

Table 87--Canned fruit: Per capita consumption, product weight basis, 1970 to date

Season 1/ 1/	Apricots	Cherries 2/ 2/	Salad and cocktail				Pears	Plums and prunes	Olives	Total 3/ 3/
			--Pounds--							
1970	0.82	0.33	2.53	5.68	1.78	0.29	0.96	12.39		
1971	0.68	0.30	2.70	5.45	2.09	0.28	0.94	12.44		
1972	0.69	0.29	2.87	5.03	2.11	0.16	0.84	11.99		
1973	0.81	0.17	3.27	4.45	2.09	0.24	0.89	11.92		
1974	0.46	0.24	2.77	5.35	1.74	0.22	0.81	11.59		
1975	0.64	0.24	2.74	4.93	1.99	0.22	0.93	11.69		
1976	0.62	0.14	2.74	4.72	2.22	0.26	0.98	11.68		
1977	0.53	0.15	2.86	4.87	2.01	0.20	1.14	11.76		
1978	0.45	0.11	2.63	4.14	1.74	0.22	1.62	10.91		
1979	0.48	0.12	2.59	4.12	1.78	0.17	0.92	10.18		
1980	0.51	0.08	2.57	4.05	1.84	0.14	1.00	10.19		
1981	0.38	0.09	2.37	3.54	1.73	0.16	0.83	9.10		
1982	0.32	0.11	2.39	3.64	1.78	0.15	0.99	9.38		
1983	0.29	0.10	2.04	2.89	1.65	0.12	1.15	8.24		
1984	0.31	0.10	2.11	3.13	1.43	0.10	1.16	8.34		
1985	0.35	0.11	2.09	3.14	1.31	0.11	1.31	8.42		
1986	0.20	0.08	2.21	3.22	1.54	0.11	1.36	8.72		
1987	0.24	0.09	2.22	3.25	1.56	0.12	1.29	8.77		
1988	4/ 0.25	0.09	2.26	3.45	1.62	0.13	1.04	8.84		

1/ Season beginning June 1 for year indicated, for all items except cherries, tart, July 1, and olives, August 1.

2/ Includes sweet and tart cherries. Numbers revised to exclude cherries in brine for the entire 1970 to 1988 period.

3/ Some figures may not add due to rounding.

4/ Preliminary.

Note: Numbers have been revised back to 1970 to reflect per capita consumption for crop season rather than calendar year.

Source: Commodity Economics Division, ERS, USDA.

Table 88--Canned and chilled fruit juices (excluding frozen): Per capita consumption, single-strength basis, 1970 to date 1/

Year	Canned						Chilled 2/			
	Citrus			Noncitrus						
	Blended orange and grapefruit	Lemon and lime	Total 3/	Fruit nectars	Grapes	Prunes	Total 3/	Orange 4/	Grapefruit	Total 3/
--Pounds--										
1970	1.75	2.99	0.33	0.10	5.17	0.68	0.58	1.09	2.35	4.28
1971	1.66	3.24	0.31	0.10	5.11	0.67	0.71	1.07	2.45	4.28
1972	1.51	3.25	0.25	0.10	5.11	0.66	0.53	0.66	1.75	4.51
1973	1.74	3.42	0.24	0.10	5.20	0.50	0.56	0.97	2.03	4.61
1974	1.48	3.49	0.22	0.10	5.29	0.52	0.67	0.72	1.91	4.54
1975	1.52	3.34	0.23	0.12	5.21	0.77	0.59	0.81	2.17	4.59
1976	1.37	3.33	0.32	0.08	5.10	0.76	0.56	0.99	2.31	4.96
1977	1.46	3.13	0.21	0.08	4.88	0.67	0.45	0.88	2.00	4.31
1978	1.74	3.50	0.17	0.06	5.47	0.75	0.92	0.93	2.60	5.25
1979	2.04	3.35	0.08	0.05	5.52	0.56	0.65	0.80	2.01	5.74
1980	1.98	2.92	0.09	0.05	5.04	0.67	0.65	0.86	2.18	5.40
1981	2.26	2.42	0.07	0.06	4.81	0.69	0.68	0.92	2.29	5.64
1982	1.74	2.07	0.06	0.05	3.88	0.51	0.64	0.78	1.93	5.15
1983	1.24	1.58	0.08	0.07	2.97	0.36	0.91	0.61	1.88	3.86
1984	1.47	1.20	0.07	0.07	2.81	0.27	0.75	0.66	1.68	3.23
1985	0.85	1.31	0.04	0.05	2.25	0.41	0.52	0.64	1.57	3.18
1986	0.82	1.13	0.04	0.05	2.04	0.36	0.50	0.63	1.49	3.55
1987	0.90	1.01	0.03	0.05	1.99	0.26	0.80	0.54	1.60	3.76
1988 5/	0.78	0.85	0.01	0.03	1.67	0.29	0.80	0.63	1.72	4.45

1/ Calendar-year basis except for citrus juices, which are on a pack year basis beginning prior to 1970. 2/ Chilled fruit juice produced commercially from fresh fruit in Florida; does not include reconstituted or frozen juice or fresh juice produced for local sale. 3/ Some figures may not add due to rounding.

4/ Includes orange juice processed only from Florida oranges. 5/ Preliminary.

Source: Commodity Economics Division, ERS, USDA.

Table 89--Frozen citrus juices: Per capita consumption, product weight and single-strength basis, 1970 to date 1/

Year	Orange			Grapefruit			Lemon			Lemonade base			Tangerine			Total 2/		
	Product weight	Single strength		Product weight	Single strength		Product weight	Single strength		Product weight	Single strength		Product weight	Single strength		Product weight	Single strength	
		Product weight	Single strength															
--Pounds--																		
1970	5.88	20.73	0.21	0.74	0.01	0.06	0.33	0.24	0.05	0.18	0.05	0.18	6.48	21.94				
1971	6.87	24.22	0.23	0.81	0.02	0.09	0.34	0.25	0.05	0.18	0.05	0.18	7.51	25.55				
1972	7.86	27.71	0.31	1.09	0.02	0.09	0.38	0.28	0.05	0.18	0.05	0.18	8.62	29.35				
1973	7.62	26.86	0.31	1.09	0.01	0.06	0.46	0.34	0.05	0.18	0.05	0.14	8.45	28.53				
1974	8.36	29.47	0.33	1.16	0.01	0.06	0.42	0.31	0.04	0.14	0.04	0.14	9.16	31.14				
1975	9.30	32.78	0.28	0.99	0.06	0.26	0.42	0.31	0.06	0.14	0.06	0.21	10.67	34.96				
1976	9.74	34.33	0.08	0.28	(3)	0.02	0.51	0.38	0.03	0.11	0.03	0.11	10.36	35.12				
1977	9.63	34.12	0.52	1.83	0.03	0.14	0.38	0.28	0.07	0.25	0.07	0.25	10.68	36.62				
1978	7.81	27.53	0.51	1.80	0.06	0.25	0.67	0.50	0.07	0.25	0.07	0.25	9.12	30.32				
1979	8.60	30.32	0.51	1.80	0.05	0.21	0.51	0.38	0.06	0.21	0.06	0.21	9.73	32.91				
1980	9.01	31.70	0.43	1.52	0.02	0.09	0.24	0.18	0.06	0.21	0.06	0.21	9.76	33.76				
1981	8.55	30.14	0.60	2.33	0.04	0.17	0.37	0.27	0.09	0.32	0.09	0.32	9.71	33.23				
1982	9.43	33.24	0.72	2.54	0.06	0.25	0.72	0.53	0.09	0.32	0.09	0.32	11.02	36.88				
1983	10.99	38.74	0.66	2.33	0.04	0.17	0.38	0.28	0.02	0.07	0.02	0.07	12.09	41.59				
1984	9.48	33.42	0.45	1.59	0.04	0.17	0.39	0.29	0.03	0.11	0.03	0.11	10.39	35.57				
1985	10.25	36.13	1.00	3.53	0.05	0.21	0.48	0.36	0.03	0.11	0.03	0.11	11.81	40.32				
1986	11.25	39.66	0.73	2.57	0.13	0.48	0.33	0.24	0.03	0.11	0.03	0.11	12.47	43.06				
1987	10.14	35.74	1.01	3.56	0.07	0.28	0.35	0.26	0.04	0.14	0.04	0.14	11.61	39.98				
1988 4/	10.54	37.15	0.60	2.12	0.07	0.27	0.40	0.30	0.02	0.07	0.02	0.07	11.63	39.90				

1/ Product weight includes concentrated and single-strength juices converted to single-strength on basis of 3.525 pounds to 1; Lemonade base, 0.74 to 1. 2/ Some figures may not add due to rounding. 3/ Negligible. 4/ Preliminary.

Source: Commodity Economics Division, ERS, USDA.

Table 90-Frozen fruit: Per capita consumption, product weight basis, 1970 to date

Year	Black- berries	Blue- berries	Rasp- berries	Straw- berries	Other berries	Apples	Apricots	Cherries	Grapes and pulp	Peaches	Miscel- laneous 1/	Total 2/
	--Pounds--											
1970	0.10	0.21	0.16	1.19	0.06	0.47	0.06	0.61	0.03	0.28	3.34	
1971	0.16	0.18	0.16	1.41	0.07	0.53	0.07	0.68	0.01	0.26	3.68	
1972	0.11	0.18	0.12	1.35	0.06	0.66	0.04	0.64	0.01	0.15	3.63	
1973	0.08	0.16	0.10	1.19	0.05	0.61	0.08	0.81	0.04	0.23	3.51	
1974	0.06	0.14	0.09	1.13	0.04	0.53	0.06	0.49	0.01	0.28	2.76	
1975	0.08	0.19	0.09	1.40	0.04	0.45	0.07	0.44	0.01	0.15	3.19	
1976	0.12	0.13	0.13	1.28	0.05	0.39	0.06	0.67	0.01	0.13	3.07	
1977	0.12	0.13	0.13	1.16	0.04	0.44	0.07	0.62	0.02	0.28	3.18	
1978	0.10	0.11	0.10	1.37	0.05	0.44	0.07	0.64	0.02	0.27	3.28	
1979	0.06	0.13	0.08	1.13	0.03	0.39	0.07	0.52	0.01	0.16	2.68	
1980	0.02	0.18	0.08	1.39	0.03	0.35	0.06	0.48	0.03	0.21	3.06	
1981	0.04	0.17	0.08	1.32	0.02	0.37	0.05	0.49	0.02	0.19	2.88	
1982	0.09	0.11	0.07	1.14	0.02	0.43	0.06	0.61	0.01	0.23	2.93	
1983	0.08	0.04	0.07	1.17	0.04	0.32	0.07	0.63	0.04	0.31	2.92	
1984	0.04	0.25	0.06	1.24	0.02	0.38	0.06	0.58	0.01	0.28	3.02	
1985	0.06	0.22	0.10	1.21	0.02	0.35	0.07	0.58	0.03	0.40	3.27	
1986	0.04	0.38	0.09	1.26	0.03	0.40	0.07	0.66	0.01	0.41	3.55	
1987	0.05	0.29	0.07	1.28	0.02	0.53	0.08	1.00	0.27	0.20	3.86	
1988 5/	0.08	0.20	0.09	1.33	0.04	0.49	0.06	0.72	0.44	0.32	3.77	

1/ Includes prunes and plums.

2/ Some figures may not add due to rounding.

3/ Negligible.

4/ Included in miscellaneous fruits.

5/ Preliminary.

Source: Commodity Economics Division, ERS, USDA.

Table 91--Dried fruit: Per capita consumption, product weight basis, pack years, 1970 to date

Pack 1/	Apricots	Dates 2/	Figs	Peaches	Pears	Prunes 3/	Raisins	Total 4/
--Pounds--								
1970	0.05	0.26	0.22	0.01	0.003	0.68	1.33	2.55
1971	0.06	0.31	0.19	0.02	0.01	0.58	1.36	2.53
1972	0.05	0.28	0.11	0.02	0.01	0.48	0.95	1.90
1973	0.05	0.28	0.13	0.02	0.01	0.54	1.37	2.40
1974	0.03	0.24	0.16	0.01	0.01	0.50	1.32	2.27
1975	0.04	0.34	0.15	0.01	0.01	0.60	1.62	2.45
1976	0.05	0.41	0.17	0.02	0.01	0.52	1.27	2.37
1977	0.06	0.36	0.16	0.01	0.01	0.48	1.29	2.37
1978	0.05	0.31	0.17	0.01	0.01	0.42	0.97	1.94
1979	0.04	0.27	0.17	0.01	0.01	0.38	1.49	2.37
1980	0.04	0.14	0.14	0.02	0.01	0.44	1.49	2.28
1981	0.05	0.18	0.11	0.02	0.01	0.43	1.72	2.52
1982	0.06	0.26	0.14	0.02	0.01	0.47	1.83	2.79
1983	0.08	0.25	0.15	0.04	0.01	0.44	1.91	2.88
1984	0.08	0.28	0.13	0.04	0.01	0.36	2.08	2.98
1985	0.05	0.18	0.12	0.01	0.01	0.47	1.83	2.67
1986	0.08	0.15	0.14	0.01	0.01	0.44	2.19	3.02
1987	0.05	0.17	0.16	0.02	0.01	0.62	1.63	2.66
1988 5/	0.06	0.16	0.15	0.03	0.01	0.66	1.78	2.85

1/ Pack beginning July 1 for apricots, peaches, pears; September 1 for dates, figs, raisins; and August 1 for prunes.
 2/ Pits-in basis. 3/ Excludes quantities used for juice. 4/ Some figures may not add due to rounding. 5/ Preliminary.

Source: Commodity Economics Division, ERS, USDA.

Table 92--Tree nuts (shelled basis): Per capita consumption, 1970 to date

Season 1/	Almonds	Filberts	Pecans	Walnuts	Macadamias	Pistachios 2/	Other 3/	Total 4/
--Pounds--								
1970/71	0.34	0.05	0.40	0.36	0.02	N.A.	0.59	1.76
1971/72	0.36	0.06	0.44	0.41	0.02	N.A.	0.61	1.90
1972/73	0.36	0.07	0.43	0.39	0.02	N.A.	0.71	1.98
1973/74	0.26	0.10	0.43	0.40	0.02	N.A.	0.57	1.78
1974/75	0.26	0.04	0.39	0.42	0.02	N.A.	0.45	1.58
1975/76	0.35	0.08	0.39	0.51	0.03	N.A.	0.60	1.96
1976/77	0.42	0.07	0.33	0.52	0.03	N.A.	0.55	1.92
1977/78	0.45	0.07	0.37	0.53	0.03	0.04	0.28	1.77
1978/79	0.39	0.08	0.39	0.39	0.03	0.04	0.42	1.74
1979/80	0.37	0.04	0.46	0.47	0.04	0.04	0.38	1.80
1980/81	0.42	0.05	0.43	0.51	0.04	0.08	0.32	1.85
1981/82	0.50	0.05	0.45	0.51	0.04	0.04	0.33	1.92
1982/83	0.58	0.07	0.48	0.47	0.05	0.08	0.46	2.19
1983/84	0.56	0.05	0.48	0.59	0.05	0.08	0.52	2.33
1984/85	0.60	0.07	0.53	0.52	0.05	0.17	0.47	2.41
1985/86	0.68	0.07	0.47	0.42	0.05	0.15	0.45	2.29
1986/87	0.53	0.04	0.54	0.45	0.06	0.16	0.46	2.24
1987/88	0.58	0.06	0.53	0.48	0.06	0.09	0.44	2.24
1988/89 5/	0.66	0.09	0.52	0.44	0.06	0.19	0.55	2.51

N.A.= not available

1/ Beginning August of year indicated for filberts (hazelnuts), and walnuts, September for pistachios, January for macadamias and July for all others. 2/ Estimates begin in 1977. 3/ Includes the following nuts: Brazil, pignolias, pistachios (until 1977), chestnuts, cashews, and miscellaneous. 4/ Some figures may not add due to rounding. 5/ Preliminary.

Source: Commodity Economics Division, ERS, USDA.

Table 93-Fruit and edible tree nuts: Utilized production, by States, 1985

State	Noncitrus						Total		
	Apples			Cherries			Grapes	Peaches	Pears
	Apricots	Sweet	Tart	Cranberries			Prunes and plums	Strawberries	Other 1/2/
-1,000 short tons--									
Alabama				18.5	0.8				0.8
Arizona	7.5	103.0	23.5	0.9	5,207.0	2.3	292.5	386.9	18.5
Arkansas	310.0					7.5	5.9		0.1
California	555.0					1.5			57.8
Colorado	20.0								69.3
Connecticut	9.5								0.5
Delaware						0.6			10.1
Florida									0.2
Georgia	9.5								0.1
Hawaii									0.6
Idaho	65.5								4.2
Illinois	51.0								77.1
Indiana	37.5								0.5
Iowa	6.0								51.0
Kansas	6.4								37.5
Kentucky	7.5								0.3
Louisiana									7.5
Maine	41.0								41.0
Maryland	38.0								38.5
Massachusetts	42.5								127.9
Michigan	535.0								0.9
Minnesota	10.5								779.2
Mississippi									5.5
Missouri	31.0								31.9
Montana									0.2
New Hampshire	27.5								27.5
New Jersey	51.5								0.2
New Mexico									0.1
New York	539.5								115.6
North Carolina	137.5								5.6
Ohio	72.5								72.7
Oklahoma									5.1
Oregon	80.0								142.3
Pennsylvania	292.5								0.6
Rhode Island	2.0								84.1
South Carolina	7.5								4.0
Tennessee	5.0								363.1
Texas									2.6
Utah	27.5	0.9	2.1	10.5					369.4
Vermont	23.5								2.6
Virginia	194.0	2.4	35.3						13.0
Washington	1,025.0								0.1
West Virginia	115.0								0.8
Wisconsin	29.0								0.7
United States	3,917.9	106.3	126.5	140.1	174.3	5,606.6	1,023.2	747.0	14,189.2
									100.0

Continued-

Table 93--Fruit and edible tree nuts: Utilized production, by states, 1985--Continued

State	Citrus fruit 3/				Total all fruits				Total all fruit and nuts			
					Quantity 2/		Percent of U.S.		Quantity 2/		Percent of U.S.	
	Oranges	Grapefruit	Lemons	Other 4/	1,000 short tons	1,000 short tons	1,000 short tons	1,000 short tons				
Alabama	92.0	96.0	228.0	26.0	442.0	4.2	0.8	8.0	8.0	1.0	8.8	(6)
Arizona	1,966.0	289.0	752.0	63.0	3,070.0	29.3	11,256.7	0.9	606.4	0.9	460.5	0.8
Arkansas							69.3	45.7			19.4	0.1
California							0.3	0.1			11,833.1	46.8
Colorado							23.0	0.1			69.3	0.1
Connecticut							10.1	(6)			23.0	0.1
Delaware							7,057.5	28.7	1.4	0.2	10.1	0.1
Florida	4,676.0	1,870.0			430.0	6,976.0	66.5	7,057.5	41.5	21.0	52.7	27.8
Georgia							551.1	0.2			56.6	0.4
Hawaii							599.3	2.4			62.0	2.4
Idaho							777.1	0.3			77.1	0.3
Illinois							51.0	0.2			51.0	0.1
Indiana							37.5	0.2			37.5	0.1
Iowa							6.0	(6)			6.0	(6)
Kansas							7.9	(6)			7.9	(6)
Kentucky							7.5	(6)			7.5	(6)
Louisiana							4.5	(6)			4.5	(6)
Maine							41.0	0.2			41.0	0.2
Maryland							38.5	0.2			38.5	0.2
Massachusetts							127.9	0.5			127.9	0.5
Michigan							779.2	3.2			779.2	3.1
Minnesota							10.5	(6)			10.5	(6)
Mississippi							1.3	(6)	3.3	0.4	4.5	0.6
Missouri							31.9	0.1			31.9	0.1
Montana							35.5	(6)			35.5	0.6
New Hampshire							27.5	0.1			27.5	0.1
New Jersey							115.6	0.5			115.6	0.5
New Mexico							727.7	2.9			727.7	2.9
New York							142.3	0.6	0.5	0.1	142.8	0.6
North Carolina							64.1	0.3			64.1	0.3
Ohio							4.0	(6)	5.0	5.6	9.0	6.0
Oklahoma							363.1	1.5	24.3	3.1	387.4	1.5
Oregon							369.4	1.5			369.4	1.5
Pennsylvania							2.0	(6)			2.0	(6)
Rhode Island							118.1	0.5	0.7	0.1	118.8	0.5
South Carolina							5.0	(6)			5.0	(6)
Tennessee							13.0	0.1	39.0	5.0	52.0	0.2
Texas							48.8	0.2			48.8	0.2
Utah							23.5	0.1			23.5	0.1
Vermont							194.9	0.8			194.9	0.8
Virginia							1,447.6	6.0	0.3	0.3	1,447.9	5.8
Washington							1,152.0	0.5	97.0	0.4	1,152.0	0.5
West Virginia							97.0	0.4			97.0	0.4
Wisconsin												
United States	6,734.0	2,255.0	980.0	519.0	10,488.0	100.0	24,677.2	100.0	122.2	652.0	774.2	100.0
												25,451.4
1/ Avocados, bananas, dates, figs, kiwi fruit, nectarines, olives, papayas, pineapples, and pomegranates. 2/ Some figures may not add due to rounding. 3/ 1984/85 crop.												100.0
4/ Tangerines, limes, tangelos, and templets. 5/ Almonds, filberts (hazelnuts), macadamia nuts, walnuts, and pistachios. 6/ Less than 0.05 percent.												
Sources: Noncitrus Fruit and Nuts Midyear Supplement, Citrus Fruit Summary, and Vegetable Summary, MASS, USDA.												

Table 94--Fruit and edible tree nuts: Value of production, by States, 1985

State	Noncitrus							Total					
	Apples		Apricots		Cherries		Peaches		Prunes and plums	Straw- berries	Other 1/ 2/	Value 2/	Percent of U.S.
	Apples	Apricots	Sweet	Tart	Cran- berries	Grapes	Pears	-1,000 dollars--					
Alabama								458					
Arizona	1,745	26,276	24,641	390		17,208	458					458	(6)
Arkansas	58,540					1,017	776					17,908	0.5
California	10,504					877,048	156,104					4,320	0.1
Colorado	6,623						1,230					53,6	0.4
Connecticut	1,656						1,900					16,088	0.2
Delaware							1,713					8,566	0.1
Florida							314					1,770	0.1
Georgia	2,131						1,038					77,684	2.0
Hawaii							20,439					23,608	0.6
Idaho	25,668						1,960					101,581	101,581
Illinois	12,472							1,881				31,574	0.8
Indiana	9,832											12,472	0.3
Iowa	1,842											9,332	0.3
Kansas	1,488											1,842	0.6
Kentucky	2,118											2,241	0.1
Louisiana	13,395											2,118	0.1
Maine	7,764											3,370	0.1
Maryland	15,594											13,395	0.3
Massachusetts	79,800											10,395	0.3
Michigan	4,612											8,026	0.2
Minnesota												108,903	2.8
Mississippi	10,069											176,350	4.6
Missouri												4,152	0.1
Montana	2,255											10,395	0.3
New Hampshire	10,230											10,255	0.1
New Jersey	12,128											10,255	0.3
New Mexico	1,280											58,340	1.5
New York	75,085											117,625	3.0
North Carolina	20,235											23,067	0.6
Ohio	20,810											27,276	0.7
Oklahoma												1,864	0.0
Oregon	20,200											120,400	3.1
Pennsylvania	54,810											78,133	2.0
Rhode Island	872											872	0.0
South Carolina	1,645											46,328	1.2
Tennessee	1,358											1,358	0.0
Texas	6,650	353	1,624	4,832								7,280	0.2
Utah	7,742											15,979	0.4
Virginia	38,216											7,742	0.2
Washington	348,740	1,508	36,527	8,214		20,642	376					38,592	1.0
West Virginia	22,532											50,335	13.1
Wisconsin	8,147											22,532	0.6
United States	916,533	28,137	101,033	62,848	189,959	959,108	307,338	201,109	192,439	450,819	460,415	3,869,738	100.0

Continued--

Table 94-Fruit and edible tree nuts: Value of production, by States, 1985--Continued

State	Citrus fruit 3/				Total all fruits				Total all fruit and nuts			
					Value 2/		Percent of U.S.		Value 2/		Percent of U.S.	
	Oranges	Grapefruit	Lemons	Other 4/	Pecans	Other 5/	Value 2/	Percent of U.S.	Value 2/	Percent of U.S.	Value 2/	Percent of U.S.
--1,000 dollars--												
Alabama	23,225	16,940	27,537	8,702	76,404	3.7	458	(6)	8,288	1.1	8,746	0.1
Arizona							94,312	1.6			94,312	1.4
Arkansas							4,320	0.1			5,540	0.1
California	505,970	62,936	140,514	21,209	730,629	35.2	2,800,504	47.2	571,873	72.8	3,372,377	50.2
Colorado							16,088	0.3			16,088	0.1
Connecticut							8,566	0.1			8,566	0.1
Delaware							1,970	(6)			1,970	(6)
Florida	930,139	228,661		111,023	1,269,823	61.1	1,347,507	22.8	56,760	1,792	1,349,299	20.1
Georgia							23,608	0.4			23,608	0.1
Hawaii							101,581	1.7			101,581	1.2
Idaho							31,574	0.5			31,574	0.5
Illinois							12,477	0.2			12,477	0.2
Indiana							9,832	0.2			9,832	0.1
Iowa							1,842	(6)			1,842	(6)
Kansas							2,241	(6)			2,241	(6)
Kentucky							2,118	(6)			2,118	(6)
Louisiana							3,570	0.1			3,570	0.2
Maine							13,395	0.2			13,395	0.1
Maryland							8,026	0.1			8,026	0.1
Massachusetts							108,903	1.8			108,903	1.6
Michigan							176,410	3.0			176,410	2.6
Minnesota							4,612	0.1			4,612	0.1
Mississippi							4,875	(6)			4,875	(6)
Missouri							10,395	0.2			10,395	0.2
Montana							2,255	(6)			2,255	(6)
New Hampshire							10,230	0.2			10,230	0.2
New Jersey							58,340	1.0			58,340	0.9
New Mexico							1,289	(6)			1,289	0.4
New York							117,625	2.0			117,625	1.7
North Carolina							23,067	0.4			23,067	0.4
Ohio							27,276	0.5			27,276	0.4
Oklahoma							1,864	(6)			1,864	(6)
Oregon							150,400	2.0			150,400	2.0
Pennsylvania							78,133	1.3			78,133	1.2
Rhode Island							872	(6)			872	(6)
South Carolina							46,328	0.8			46,328	0.7
Tennessee							1,358	(6)			1,358	(6)
Texas							7,280	0.1			7,280	0.9
Utah							15,979	0.3			15,979	0.2
Vermont							7,742	0.1			7,742	0.1
Virginia							38,592	0.6			38,592	0.6
Washington							50,333	0.4			50,333	0.3
West Virginia							22,532	0.4			22,532	0.3
Wisconsin							78,717	1.3			78,717	1.2
United States	1,459,334	308,537	168,051	140,934	2,076,856	100.0	5,946,402	100.0	166,288	619,061	785,349	100.0
												6,731,751
												100.0

1/ Avocados, bananas, dates, figs, kiwi fruit, nectarines, olives, papayas, pineapples, and pomegranates. 2/ Almonds, filberts (hazelnuts), macadamia nuts, walnuts, and pistachios. 3/ 1984/85 crop. 4/ Tangerines, limes, tangelos, and templets. 5/ Less than 0.05 percent.

Sources: Noncitrus Fruit and Nuts Midyear Supplement, Citrus Fruit Summary, and Vegetable Summary, MASS., USDA.

Table 95--Fruit and edible tree nuts: Utilized production, by States, 1986

State	Noncitrus						Total						Percent of U.S.
	Cherries			Grapes			Peaches	Pears	Prunes and plums	Strawberries	Other 1/	Quantity 2/	
	Apples	Apricots	Plums	Sweet	Tart	Cranberries							
-1,000 short tons--													
Alabama	4.8	50.0	8.4	0.5		23.0	3.0					3.0	(6)
Arizona	257.5					4,770.0	684.3	294.0	443.1	393.9	672.1	7,572.3	0.2
Arkansas	8.8						3.4	1.8	1.6			14.4	0.1
Colorado	23.0						1.3					25.9	0.1
Connecticut	13.5						1.4					14.9	0.2
Delaware												70.1	0.5
Florida	14.5					2.0	50.5			45.4	24.7	67.0	0.5
Georgia												681.4	4.9
Hawaii												59.8	0.4
Idaho	47.0						5.5					55.3	0.4
Illinois	45.0						10.3					20.5	0.1
Indiana	18.5						2.0					2.7	0.6
Iowa	2.7											3.7	0.9
Kansas	1.5											3.0	0.6
Kentucky	2.0											1.8	0.6
Louisiana	43.0											43.0	0.4
Maine	42.5											52.5	0.4
Massachusetts	42.0											13.0	0.1
Michigan	350.0					20.0	82.5	90.7	32.0	0.9	11.0	11.0	0.6
Minnesota	9.0									25.0		7.2	0.2
Mississippi												27.4	0.2
Missouri	18.5											21.0	0.2
Montana						1.0						25.0	0.2
New Hampshire	25.0											118.2	0.8
New Jersey	50.0											3.0	0.6
New Mexico	3.0											65.7	0.7
New York	450.0						1.4	6.2	164.0	7.0	18.0	74.3	0.5
North Carolina	60.0								1.4	10.5		57.1	0.4
Ohio	45.0								8.0	1.3		2.8	0.6
Oklahoma												318.9	2.3
Oregon	52.5									38.0	6.1	43.2	3.1
Pennsylvania	310.0									6.0	60.0	50.0	2.8
Rhode Island	2.8											139.5	1.0
South Carolina	15.0									0.5	124.0		6.1
Tennessee	4.3											4.8	0.6
Texas												36.7	0.3
Vermont	17.0		0.8		2.2	9.3				5.3	2.2		24.0
Virginia ^a	225.0		4.3		62.5		5.0	156.0	13.0	266.0	9.1		238.0
Washington ^a	1,580.0								20.0	11.5		2,109.9	15.3
West Virginia ^a	1,150.9								1.9	64.0		126.5	0.9
Wisconsin	27.5											96.6	0.7
United States	3,953.7		55.1	136.8	109.2	182.0	5,225.3	1,120.0	760.4	487.2	509.7	1,378.2	13,917.4
													100.0

Table 95--Fruit and edible tree nuts: Utilized production, by States, 1986--Continued

State	Citrus fruit 3/				Total all fruits				Total all fruit and nuts			
	Oranges	Grapefruit	Lemons	Other 4/	Total		Quantity 2/		Total		Quantity 2/	
					Quantity 2/	Percent of U.S.	Percent of U.S.	Percent of U.S.	Pecans	Other 5/	Percent of U.S.	Percent of U.S.
--1,000 short tons--												
Alabama	87.0	77.0	123.0	26.0	313.0	2.8	3.0	(6)	8.0	8.0	1.4	11.0
Arizona	2,022.0	266.0	574.0	68.0	2,930.0	26.5	10,503.3	42.2	0.6	0.6	0.1	336.0
Arkansas							14.4	0.1	418.8	418.8	70.7	10,922.1
California							25.9	0.1				42.8
Colorado							14.9	0.1				14.4
Connecticut							31.5	0.1				25.9
Delaware							60.0	0.3				14.9
Florida	5,364.0	1,987.0			434.0	7,785.0	70.4	7,857.8		2.8	0.5	7,857.8
Georgia							67.0	0.3				30.8
Hawaii							681.4	2.7				30.5
Idaho							59.8	0.2				2.8
Illinois							55.3	0.2				0.2
Indiana							20.5	0.1				0.1
Iowa							20.5	0.1				0.1
Kansas							2.7	(6)				2.7
Kentucky							3.7	(6)				3.7
Louisiana							3.0	(6)				3.0
Maine							1.8	(6)				1.8
Maryland							43.0	0.2				43.0
Massachusetts							52.5	0.2				52.5
Michigan							137.6	0.6				137.6
Minnesota							538.7	2.2				538.7
Mississippi							9.0	(6)				9.0
Missouri							0.2	(6)				0.2
Montana							27.4	0.1				27.4
New Hampshire							1.0	(6)				1.0
New Jersey							25.0	0.1				25.0
New Mexico							118.2	0.5				118.2
New York							3.0	(6)				3.0
North Carolina							655.7	2.6				655.7
Ohio							74.3	0.3				74.3
Oklahoma							57.1	0.2				57.1
Oregon							2.8	(6)				2.8
Pennsylvania							318.9	1.3				318.9
Rhode Island							433.2	1.7				433.2
South Carolina							2.8	(6)				2.8
Tennessee							139.5	0.6				139.5
Texas	14.0	9.0			23.0	0.2	6.1	(6)				6.1
Utah							27.8	(6)				27.8
Vermont							36.7	0.1				36.7
Virginia							24.0	0.1				24.0
Washington							238.0	1.0				238.0
West Virginia							2,109.9	8.5				2,109.9
Wisconsin							126.5	0.5				126.5
United States	7,487.0	2,339.0	697.0	528.0	11,051.0	100.0	24,968.4	100.0	136.4	455.9	592.3	100.0
												25,560.6
												100.0

1/ Avocados, bananas, dates, figs, kiwi fruit, nectarines, olives, papayas, pineapples, and pomegranates. 2/ Almonds, tangerines, times, tangelos, and templets. 3/ 1985/86 crop. 4/ Less than 0.05 percent. 5/ Almonds, tangerines, tangelos, and pistachios. 6/ Less than 0.05 percent.

Sources: Noncitrus Fruit and Nuts Midyear Supplement, Citrus Fruit Summary, and Vegetable Summary, NASS, USDA.

Table 96--Fruit and edible tree nuts: Value of production, by States, 1986

State	Noncitrus										Percent of U.S.			
	Apples		Apricots		Cherries		Grapes		Peaches		Prunes and plums	Straw- berries	Other 1/	Total
	Apples	Apricots	Sweet	Tart	Cran- berries	Grapes	Pears	Peaches	Prunes and plums	Straw- berries	Other 1/	Value 2/		
--1,000 dollars--														
Alabama						25,070	1,632					1,632	(6)	
Arizona	1,263					1,164	1,643					25,070	0.6	
Arkansas	83,903	18,564	10,211		359	1,060,245	141,882	68,140	180,938	385,245	900	295,770	0.1	
California	1,706					2,077	2,077	90				4,970	53.4	
Colorado	8,869					1,258	1,258	500				4,632	0.1	
Connecticut	2,456											10,893	0.3	
Delaware												2,956	0.1	
Florida												60,333	1.4	
Georgia	4,646											113,753	0.6	
Hawaii												27,854	2.7	
Idaho	20,900				1,971							113,753	0.7	
Illinois	14,360											19,280	0.5	
Indiana	6,864											8,184	0.2	
Iowa	1,449											1,449	(6)	
Kansas	1,693											2,358	0.1	
Kentucky	810											1,218	(6)	
Louisiana	16,505											2,006	(6)	
Maine	9,641											1,938		
Massachusetts	18,048											16,505	0.4	
Michigan	65,075				11,520	32,751	81,222	7,916	4,088	4,088	100,134	2.4		
Minnesota	5,484								8,864	8,864	2,558	6,366	3.3	
Mississippi									99	99		137,718	0.1	
Missouri	7,597								2,520	2,520		5,484	(6)	
Montana					480							11,016	0.3	
New Hampshire	9,982											11,480	(6)	
New Jersey	12,416											9,982	0.2	
New Mexico	1,140											52,877	1.3	
New York	91,260											1,140	(6)	
North Carolina	10,160											142,888	3.4	
Ohio	15,660											16,404	0.4	
Oklahoma												21,624	0.5	
Oregon	11,081											3,477	(6)	
Pennsylvania	5,252											127,677	3.0	
Rhode Island	1,224											89,976	2.1	
South Carolina	4,037											1,224	(6)	
Tennessee	1,572											43,913	1.0	
Texas	4,690											3,705	0.1	
Utah	291											12,641	0.3	
Virginia	43,456											8,480	0.2	
Washington	488,400	3,319	59,437				4,530	37,120	5,518	9,105	3,329	6,500	1.2	
West Virginia	24,410								56,832	3,338		21,748	16.4	
Wisconsin	9,390											70,658	0.7	
United States	1,058,879	22,174	112,773	44,266	162,866	1,180,182	314,926	202,760	419,386	503,641	419,699	4,214,552	100.0	

Continued--

Table 96-Fruit and edible tree nuts: Value of production, by States, 1986-Continued

State	Citrus fruit 3/			Total all fruits			Total all fruit and nuts		
	Oranges	Grapefruit	Lemons	Value 2/		Percent of U.S.	Value 2/		Percent of U.S.
				Total	Percent of U.S.		Pecans	Other 5/	
--1,000 dollars--									
Alabama	15,746	11,589	48,844	8,293	84,472	4.8	1,632	(6)	14,368
Arizona	364,952	59,280	170,426	21,940	616,598	34.9	2,874,502	1.8	109,542
California							4,970	0.1	1,6
Colorado							4,632	0.1	5,945
Connecticut							10,893	0.2	50.9
Delaware	708,359	267,067		85,840	1,061,266	60.0	1,121,599	0.2	4,632
Florida							18,8	3,271	0.1
Georgia							81,800	8,200	10,893
Hawaii							3,271	3.6	10,893
Idaho							81,800	35,200	1,121,599
Illinois							81,800	35,200	1,121,599
Indiana							81,800	35,200	1,121,599
Iowa							81,800	35,200	1,121,599
Kansas							81,800	35,200	1,121,599
Kentucky							81,800	35,200	1,121,599
Louisiana							81,800	35,200	1,121,599
Maine							81,800	35,200	1,121,599
Maryland							81,800	35,200	1,121,599
Massachusetts							81,800	35,200	1,121,599
Michigan							81,800	35,200	1,121,599
Minnesota							81,800	35,200	1,121,599
Mississippi							81,800	35,200	1,121,599
Missouri							81,800	35,200	1,121,599
Montana							81,800	35,200	1,121,599
New Hampshire							81,800	35,200	1,121,599
New Jersey							81,800	35,200	1,121,599
New Mexico							81,800	35,200	1,121,599
New York							81,800	35,200	1,121,599
North Carolina							81,800	35,200	1,121,599
Ohio							81,800	35,200	1,121,599
Oklahoma							81,800	35,200	1,121,599
Oregon							81,800	35,200	1,121,599
Pennsylvania							81,800	35,200	1,121,599
Rhode Island							81,800	35,200	1,121,599
South Carolina							81,800	35,200	1,121,599
Tennessee							81,800	35,200	1,121,599
Texas	3,168	2,076					81,800	35,200	1,121,599
Utah							81,800	35,200	1,121,599
Vermont							81,800	35,200	1,121,599
Virginia							81,800	35,200	1,121,599
Washington							81,800	35,200	1,121,599
West Virginia							81,800	35,200	1,121,599
Wisconsin							81,800	35,200	1,121,599
United States	1,092,225	340,012	219,270	116,073	1,767,580	100.0	5,995,138	100.0	6,973,423

1/ Avocados, bananas, dates, figs, kiwi fruit, nectarines, olives, pineapples, and pomelos. 2/ Some figures may not add due to rounding. 3/ 1985/86 crop. 4/ Tangerines, Limes, tangelos, and temples. 5/ Almonds, filberts (hazelnuts), macadamia nuts, walnuts, and pistachios. 6/ Less than 0.05 percent.

Sources: Noncitrus Fruit and Nuts Midyear Supplement, Citrus Fruit Summary, and Vegetables Summary, NASS, USDA.

Table 97--Fruit and edible tree nuts: Utilized production, by States, 1987

State	Apples	Apricots	Cherries			Cranberries	Grapes	Peaches	Pears	Prunes and plums	Strawberries	Other 1/	Quantity 2/	Total	Percent of U.S.	
			Sweet	Sweet	Tart											
Noncitrus																
Alabama						5.0									5.0	(6)
Arizona	2.0					21.0									21.0	0.1
Arkansas	325.0	102.0	45.0	0.4		5.0	0.7								8.3	0.1
California	559.0					4,660.0	680.5								8,041.5	50.3
Colorado	22.0					8.5	6.4								7.3	0.5
Connecticut	13.0					1.3	1.5								24.7	0.2
Delaware						0.5									13.5	0.1
Florida						2.7	49.0								84.2	0.5
Georgia	20.0					1.7									71.7	0.4
Hawaii															731.2	4.6
Idaho	75.0														87.6	0.5
Illinois	48.0														57.5	0.4
Indiana	35.0														38.8	0.2
Iowa	4.7														4.7	(6)
Kansas	5.2														6.4	0.6
Kentucky	8.3														12.7	0.1
Louisiana	37.0														22.4	(6)
Maine	19.0														37.0	0.2
Massachusetts	47.0														129.5	0.8
Michigan	525.0														787.6	4.9
Minnesota	11.5														11.5	0.1
Mississippi															0.3	0.6
Missouri	25.0					2.6									36.3	0.2
Montana															2.6	(6)
New Hampshire	24.5														24.5	0.2
New Jersey	38.5														92.6	0.6
New Mexico	6.3														6.3	(6)
New York	440.0					1.3	12.2								660.9	4.1
North Carolina	195.0														210.6	1.3
Ohio	75.0														95.2	0.6
Oklahoma															170.2	1.1
Oregon	102.5														463.5	2.9
Pennsylvania	230.0														343.5	2.1
Rhode Island	2.5														2.5	(6)
South Carolina	19.5														17.0	1.1
Tennessee	7.0														8.1	0.1
Texas															2.4	0.6
Utah	31.5	0.9		1.8		10.0									52.1	0.3
Virginia	230.5														21.9	0.1
Washington	2,400.0	3.9		74.0			6.5		246.0						242.5	1.5
West Virginia	90.0														3,112.2	10.6
Wisconsin	30.5														98.5	0.6
United States	5,225.9	106.8		212.8		142.8									101.2	0.6
															16,010.2	100.0

Continued--

Table 97--Fruit and edible tree nuts: Utilized production, by States, 1987--Continued

State	Citrus fruit 3/				Total all fruits				Total all fruit and nuts 1/			
	Oranges	Grapefruit	Lemons	Other 4/	Total		Quantity 2/		Total		Quantity 2/	
					1,000 short tons	Percent of U.S.	1,000	Percent of U.S.	1,000	Percent of U.S.	1,000	Percent of U.S.
--1,000 short tons--												
Alabama	101.0	70.0	270.0	26.0	467.0	3.9	5.0	(6)	12.5	1.3	17.5	0.7
Arizona							488.0	1.7		488.0	488.0	1.7
Arkansas	2,172.0	305.0	817.0	83.0	3,377.0	28.2	11,418.5	(6)	0.7	782.6	0.7	8.9
California							41.0	0.3			12,201.1	42.3
Colorado							24.7	0.1			74.3	0.3
Connecticut							13.5	(6)			13.5	(6)
Delaware							29.0	0.3			8,095.9	28.0
Florida	5,386.0	2,116.0			507.0	8,009.0	66.9	8,093.2	2.8	21.4	57.5	6.0
Georgia							731.2	2.6			122.2	0.4
Hawaii							87.6	0.3			75.6	2.6
Idaho							57.5	0.2			87.6	0.3
Illinois							38.8	0.1			57.5	0.3
Indiana							4.7	(6)			38.8	0.1
Iowa							6.4	(6)			4.7	(6)
Kansas							12.7	(6)			6.4	(6)
Kentucky							24.4	(6)			12.7	(6)
Louisiana							37.0	0.1			11.9	(6)
Maine							23.5	0.1			37.0	0.1
Maryland							120.5	0.4			120.5	0.4
Massachusetts							787.6	2.8			787.6	2.7
Michigan							11.5	(6)			11.5	(6)
Minnesota							0.3	(6)			6.3	(6)
Mississippi							34.3	0.1			34.3	0.1
Missouri							2.6	(6)			2.6	(6)
Montana							24.5	0.1			26.5	0.3
New Hampshire							92.6	0.3			92.6	0.3
New Jersey							6.3	(6)			18.8	0.1
New Mexico							660.9	2.4			660.9	2.3
New York							210.6	0.8	1.0	0.1	211.6	0.7
North Carolina							93.2	0.3			93.2	0.3
Ohio							92.0	(6)	6.0		8.0	(6)
Oklahoma							463.5	1.7			480.0	1.7
Pennsylvania							343.5	1.2			343.5	1.2
Rhode Island							2.5	(6)			2.5	(6)
South Carolina							170.2	0.6	1.7	0.2	171.9	0.6
Tennessee							8.3	(6)			8.3	(6)
Texas	38.0				115.0	1.0	117.4	0.4	21.0	2.2	138.4	0.5
Utah							52.1	0.2			52.1	0.2
Vermont							21.0	0.1			21.0	0.1
Virginia							242.5	0.9			242.5	0.8
Washington							3,112.2	11.2			3,112.5	11.0
West Virginia							98.5	0.4			98.5	0.3
Wisconsin							101.2	0.4			101.2	0.3
United States	7,697.0	2,568.0	1,087.0		616.0	11,968.0	100.0	27,978.2	100.0	131.1	822.8	956.9
												100.0
												28,955.1

1/ Avocados, bananas, dates, figs, kiwifruit, nectarines, olives, papayas, pineapples, and pomegranates. 2/ Some figures may not add due to rounding. 3/ 1986/87 crop.

4/ Tangerines, limes, tangelos, and templets. 5/ Almonds, filberts (hazelnuts), macadamia nuts, walnuts, and pistachios. 6/ Less than 0.1.

Sources: *Noncitrus Fruit and Nuts Midyear Supplement*, *Citrus Fruit Summary*, and *Vegetables Summary*, NASS, USDA.

Table 98—Fruit and edible tree nuts: Value of production, by States, 1987

State	Apples	Apricots	Cherries			Cranberries	Grapes	Peaches	Pears	Prunes and Plums	Strawberries	Other 1/	Value 2/	Percent of U.S.	Total
			Sweet	Tart	U.S.										
-1,000 dollars--															
Alabama						21,279	2,360								2,360
Arizona	474		33,970	28,615	81	1,345	393	64,794	243,676	407,657	370,613	2,573	2,1279	0.5	21,279
Arkansas	72,070					1,202,840	149,002	3,814	1,725					2,237	58.3
California	7,048					1,300	1,700							1,117	0.3
Colorado	9,195													1,220	0.3
Connecticut	2,768													2,938	0.1
Delaware															
Florida															
Hawaii	4,520														
Idaho	15,964														
Illinois	11,460														
Indiana	11,920														
Iowa	11,886														
Kansas	1,532														
Kentucky	2,523														
Louisiana	14,155														
Maine	3,230														
Maryland	19,319														
Massachusetts	79,860														
Michigan	5,299														
Minnesota															
Mississippi	4,935														
Montana															
New Hampshire	10,955														
New Jersey	9,520														
New Mexico	1,966														
New York	80,560														
North Carolina	25,110														
Ohio	23,728														
Oklahoma															
Oregon	11,145														
Pennsylvania	4,120														
Rhode Island	1,165														
South Carolina	3,291														
Tennessee	1,880														
Texas	4,635														
Utah	7,576														
Vermont															
Virginia	42,830														
Washington	348,000	2,765	68,332	295	5,850	55,356	147,798	1,358,052	310,852	185,712	250,343	549,087	493,383	4,420,110	100.0
West Virginia	13,567														
Wisconsin	9,466														
United States	906,353	37,113	159,140	22,282											

Continued--

Table 98--Fruit and edible tree nuts: Value of production, by States, 1987--Continued

State	Citrus fruit 3/				Total all fruits				Total all fruit and nuts			
	Oranges	Grapefruit	Lemons	Other 4/	Value 2/		Percent of U.S.		Pecans	Other 5/	Value 2/	Percent of U.S.
					1,000 dollars	--1,000 dollars--	1,000 dollars	Percent of U.S.				
--1,000 dollars--												
Alabama												
Arizona	16,735	11,126	29,186	8,571	65,618	3.2	2,360	(6)	9,488	9,488	0.8	11,848
Arkansas	434,124	56,251	152,890	25,697	668,962	32.6	86,897	1.3	798	798	0.1	86,897
California												
Colorado												
Connecticut												
Delaware												
Florida	864,171	329,098	97,730	1,290,999	63.0	1,367,109	2,938	0.2	938,381	938,381	82.7	5,117
Georgia												
Hawaii												
Idaho												
Illinois												
Indiana												
Iowa												
Kansas												
Kentucky												
Louisiana												
Maine												
Maryland												
Massachusetts												
Michigan												
Minnesota												
Mississippi												
Missouri												
Montana												
New Hampshire												
New Jersey												
New Mexico												
New York												
North Carolina												
Ohio												
Oklahoma												
Oregon												
Pennsylvania												
Rhode Island												
South Carolina												
Tennessee												
Texas												
Vermont												
Virginia												
Washington												
West Virginia												
Wisconsin												
United States	1,322,623	412,234	182,076	131,998	2,048,931	100.0	6,469,041	100.0	139,109	995,151	1,134,260	100.0
Total all fruit and nuts												

1/ Avocados, bananas, dates, figs, kiwifruit, nectarines, olives, papayas, pineapples, and pomegranates. 2/ Some figures may not add due to rounding.

3/ 1986/87 crop. 4/ Tangerines, limes, tangelos, and templets. 5/ Almonds, filberts (hazelnuts), macadamia nuts, walnuts, and pistachios. 6/ Less than 0.05 percent.

Sources: Noncitrus Fruit and Nuts Midyear Supplement, Citrus Fruit Summary, and Vegetables Summary, NASS, USDA.

Table 99--Fruit and edible tree nuts: Utilized production, by States, 1988-1/

State	Apples	Apricots	Cherries			Grapes	Peaches	Pears	Prunes and plums	Straw- berries	Other 2/	Quantity 3/	Percent of U.S.
			Sweet	Tart	Cran- berries								
--1,000 short tons--													
Alabama						24.0	11.0					11.0	0.1
Arizona	5.0	87.0	26.0	0.4		5,485.0	10.0	302.0	431.2	560.7	24.0	24.0	0.2
California	355.0					7.0	734.0	3.7	698.1	0.6	22.6	54.6	0.1
Colorado	32.5							1.6			44.4	44.4	0.3
Connecticut	23.5							1.3			1.1	1.1	0.2
Delaware	9.5							1.6				89.5	0.6
Florida											84.5	84.5	0.5
Georgia	16.0							2.5	66.0	62.5	27.0	700.0	4.4
Hawaii												80.9	0.5
Idaho	67.5										50.8	50.8	0.3
Illinois	41.0										2.3	2.3	0.2
Indiana	25.5											27.8	0.2
Iowa	4.5											4.5	0.7
Kansas	4.8											6.6	0.7
Kentucky	4.8											7.5	0.7
Louisiana												5.4	0.3
Maine	45.0											45.0	0.3
Maryland	26.0											30.9	0.2
Massachusetts	48.0											144.6	0.9
Michigan	415.0											633.9	4.0
Minnesota	6.3											66.3	0.7
Mississippi												1.8	0.7
Missouri	27.0											37.3	0.2
Montana												1.9	0.7
New Hampshire	27.5											27.5	0.2
New Jersey	30.0											90.1	0.6
New Mexico	5.0											654.2	4.1
New York	455.0											195.5	1.2
North Carolina	175.0											63.1	0.4
Ohio	47.5											13.0	0.1
Oklahoma	82.5											440.4	2.8
Oregon	260.0											369.5	2.3
Pennsylvania	2.8											192.8	0.7
Rhode Island												163.5	1.0
South Carolina	18.0											10.0	0.1
Tennessee	5.5											8.1	0.1
Texas												34.6	0.2
Utah	19.5	1.0	1.9	4.8								21.5	0.1
Vermont	21.5											222.0	1.4
Virginia	208.5	6.1	62.0									2,566.4	16.3
Washington	1,150.0											117.5	0.7
West Virginia	1,107.5											100.4	0.6
Wisconsin	21.5												
United States	4,554.0	94.1	184.5	116.8	201.0	5,984.4	1,229.5	860.6	746.2	583.5	1,287.7	15,842.1	100.0

Continued--

Table 99-Fruit and edible tree nuts: Utilized production, by States, 1988 1/--Continued

State	Citrus fruit 4/			Total all fruits			Total all fruit and nuts		
	Oranges	Grapefruit	Lemons	Total		Quantity 3/	Percent of U.S.	Quantity 3/	
				Quantity 3/	Percent of U.S.			Pecans	Other 6/
--1,000 short tons--									
Alabama	68.0	48.0	139.0	17.0	272.0	2.2	11.0	(7)	5.0
Arizona	2,206.0	293.0	646.0	313.0	3,458.0	27.5	12,097.6	0.1	1.5
Arkansas						42.7	44.4	0.2	1.0
California						26.4	0.1		296.0
Colorado						(7)			24.1
Connecticut						30.7			43.8
Delaware						8,703.5			44.4
Florida						84.5	0.3		25.4
Georgia						700.0	2.5		0.1
Hawaii						80.9	0.3		11.1
Idaho						50.8	0.2		29.8
Illinois						27.8	0.1		139.5
Indiana						4.5	0.1		0.5
Iowa						6.6	0.2		722.8
Kansas						7.5	0.2		0.3
Kentucky						11.0	1.2		80.9
Louisiana						45.4	0.2		27.8
Maine						30.9	0.1		4.5
Maryland						144.6	0.5		0.1
Massachusetts						633.9	2.2		144.6
Michigan						66.3	0.7		63.9
Minnesota						1.8	0.1		2.2
Mississippi						37.3	0.1		63.9
Missouri						1.9	0.1		0.1
Montana						27.5	0.1		37.3
New Hampshire						90.1	0.3		0.1
New Jersey						55.0	0.7		0.1
New Mexico						654.2	2.3		0.1
New York						195.5	0.7		0.1
North Carolina						63.1	0.2		0.2
Ohio						13.0	0.2		0.2
Oklahoma						23.5	0.7		0.2
Oregon						440.4	1.6		0.2
Pennsylvania						369.5	1.3		0.1
Rhode Island						2.8	0.0		0.1
South Carolina						163.5	0.6		0.1
Tennessee						10.0	0.0		0.1
Texas						221.1	0.8		0.1
Utah						34.9	0.1		0.1
Vermont						21.5	0.1		0.1
Virginia						222.0	0.8		0.1
Washington						2,566.4	9.2		0.8
West Virginia						117.5	0.4		0.8
Wisconsin						100.4	0.4		0.4
United States	8,544.0	2,781.0	785.0	447.0	12,557.0	100.0	28,399.1	100.0	154.0
									744.2
									898.2
									100.0
									29,297.3

1/ Preliminary. 2/ Avocados, bananas, dates, figs, kiwifruit, nectarines, olives, papayas, pineapples, and pomegranates. 3/ Some figures may not add due to rounding. 4/ 1987/88 crop. 5/ Tangerines, times, tangelos, and temples. 6/ Almonds, filberts (hazelnuts), macadamia nuts, walnuts, and pistachios. 7/ Less than 0.05 percent.

Sources: Noncitrus Fruit and Nuts Midyear Supplement, Citrus Fruit Summary, and Vegetable Summary, NASS, USDA.

Table 100--Fruit and edible tree nuts: Value of production, by States, 1988 1/

State	Apples	Apricots	Cherries			Cranberries	Grapes	Peaches	Pears	Prunes and plums	Strawberries	Other 2/	Value 3/	Total	Percent of U.S.	
			Sweet	Tart	Noncitrus											
..1,000 dollars--																
Alabama						29,913	4,444								4,444	0.1
Arizona	1,682	29,613	20,040	201		2,103	2,997	74,540	216,586	388,998	528	381,614	2,763	29,913	0.6	
Arkansas	117,750					1,356,250	177,880	4,175	1,430	852				7,310	0.1	
California	7,141													12,445	55.9	
Colorado	11,516													13,778	0.3	
Connecticut	2,318													2,978	0.1	
Delaware														85,647	0.7	
Florida	4,200					2,278	26,498				73,875	11,772		33,976	0.7	
Georgia														125,013	2.5	
Hawaii														18,504	0.5	
Idaho	18,965					2,040								18,507	0.4	
Illinois	13,377													10,369	0.2	
Indiana	8,978													1,909	0.1	
Iowa	1,909													3,043	0.1	
Kansas	1,674													3,038	0.1	
Kentucky	1,498													4,696	0.1	
Louisiana														17,700	0.4	
Maine	17,700													8,194	0.2	
Massachusetts	6,344													22,815	0.5	
Michigan	21,660													3,772	0.1	
Minnesota	72,960													13,928	0.3	
Mississippi	3,772													13,456	0.3	
Missouri	9,295													1,042	0.3	
Montana														12,441	0.3	
New Hampshire	12,441													45,741	0.9	
New Jersey	7,220													1,950	0.7	
New Mexico	1,990													157,062	3.2	
New York	98,325													36,185	0.7	
North Carolina	27,835													26,031	0.5	
Ohio	16,185													6,448	0.1	
Oklahoma														162,626	3.7	
Oregon	19,860													88,244	1.7	
Pennsylvania	47,642													1,343	0.7	
Rhode Island	1,343													58,154	1.2	
South Carolina	4,365													4,393	0.1	
Tennessee	1,720													5,748	0.1	
Texas														1,391	0.2	
Utah	4,860	380	1,505	1,826										7,920	0.2	
Vermont	7,920													50,158	0.1	
Virginia	46,177													718,633	14.5	
Washington	493,550	4,162	60,918			6,075	44,601	9,660	90,208	2,521	6,838			23,703	0.5	
West Virginia	20,330													77,787	1.6	
Wisconsin	9,105															
United States	1,144,287	34,155	145,418	53,861	178,861	1,501,936	333,825	333,825	235,118	225,391	537,289	517,399		4,957,540	100.0	

continued

Table 100--Fruit and edible tree nuts: Value of production, by States, 1988 1/-Continued

State	Citrus fruit 4/				Total all fruits				Total all fruit and nuts			
	Oranges	Grapefruit	Lemons	Other 5/	Value 3/	Percent of U.S.	Pecans	Other 6/	Value 3/	Percent of U.S.	Value 3/	Percent of U.S.
					1,000 dollars	--1,000 dollars--	1,000 dollars	--1,000 dollars--	1,000 dollars	--1,000 dollars--	1,000 dollars	--1,000 dollars--
Alabama	14,873	6,760	31,418	6,838	59,889	2.4	6,444	0.1	5,120	5,120	0.5	9,564
Arizona	458,446	55,404	171,436	32,297	717,583	28.4	3,480,854	0.2	1,452	1,452	0.1	89,802
California							12,445	0.2	1,400	895,377	82.6	51,2
Colorado							13,778	0.2				12,445
Connecticut							12,978	0.2				13,778
Delaware							17,553	0.2				12,978
Florida	1,204,519	382,693		121,694	1,708,906	67.7	1,794,553	28.0	3,036	3,036	0.3	1,797,889
Georgia							32,976	0.4	65,850	65,850	6.1	164,963
Hawaii							126,013	1.7	40,950	40,950	3.8	164,963
Idaho							23,504	0.3				25,204
Illinois							18,057	0.2				18,057
Indiana							10,369	0.1				10,369
Iowa							1,909	0.1				1,909
Kansas							3,043	0.7				3,043
Kentucky							2,038	0.7				2,038
Louisiana							4,696	0.1				4,696
Maine							17,690	0.2				17,690
Maryland							8,194	0.1				8,194
Massachusetts							22,815	0.3				22,815
Michigan							256,284	0.3				250,284
Minnesota							3,772	0.1				3,772
Mississippi							928	0.7	4,870	4,870	0.4	5,798
Missouri							13,456	0.2				13,456
Montana							1,042	0.7				1,042
New Hampshire							12,441	0.2				12,441
New Jersey							4,741	0.6				4,741
New Mexico							11,950	0.7				11,950
New York							157,062	2.1				157,062
North Carolina							36,185	0.5	3,380	3,380	0.3	39,565
Ohio							26,031	0.3				26,031
Oklahoma							6,448	0.1	20,394	20,394	1.9	26,362
Oregon							164,626	2.2				164,626
Pennsylvania							86,244	1.2				86,244
Rhode Island							1,343	0.7				1,343
South Carolina							58,154	0.8	3,601	3,601	0.3	61,755
Tennessee							4,393	0.1				4,393
Texas	12,525	26,701			39,226	1.6	4,974	0.6	31,500			44,974
Utah							11,391	0.2				11,391
Vermont							7,920	0.1				7,920
Virginia							50,158	0.7				50,158
Washington							718,633	9.9				718,633
West Virginia							23,703	0.3				23,703
Wisconsin							77,787	1.0				77,787
United States	1,690,363	471,558	202,854	160,829	2,525,604	100.0	7,483,144	100.0	166,518	950,409	1,085,427	100.0
												8,568,571
												100.0

1/ Preliminary. 2/ Avocados, bananas, dates, figs, kiwifruit, nectarines, olives, papayas, pineapples, and pomegranates. 3/ Some figures may not add due to rounding.

4/ 1987/88 crop. 5/ Tangerines, lines, tangelos, and temples. 6/ Almonds, filberts (hazelnuts), macadamia nuts, walnuts, and pistachios. 7/ Less than 0.05 percent.

Sources: Noncitrus Fruit and Nuts Midyear Supplement, Citrus Fruit Summary, and Vegetables Summary, MASS, USDA.

Economic Impact of Consumer Health Concerns About Alar on Apples

by

Boyd M. Buxton¹

Abstract: Consumer health concerns over the use of Alar on apples had a major impact on Washington red delicious apple prices during the 1988/89 season. When the media coverage on Alar intensified, f.o.b. prices in Washington declined sharply, deviating from what would have been expected, given usual seasonal price movements. The revenue loss for the Washington red delicious apple industry for the 1988/89 season is estimated at about \$140 million. The f.o.b./retail price margin for red delicious apples rose, further exacerbating industry efforts to market the remaining apples in storage.

Keywords: Apple prices, food safety, seasonal prices, margins

Introduction

In late February 1989, media coverage intensified regarding the use of the chemical d aminozide on apples (a growth regulator sold under the trade name Alar). The publicity raised consumer health concerns and adversely affected demand for apples, especially red delicious. Since the media coverage, the f.o.b. price for Washington red delicious apples at the Wenatchee shipping point fell from \$14 per tray pack to \$7.75 the last week in June.

Stocks of apples in storage were lower than the year before early in the 1988/89 season. However, apple shipments declined in March 1989 following the media coverage on Alar, slowing the rate of stock depletion. By June 1, 1989, there were 11 percent more apples in storage than a year earlier. The reversal in the stock position left the industry with more apples to market this year than last year before the next crop comes in. This situation makes any recovery in price very unlikely.

This article estimates (1) the impact of consumer health concerns on apple prices and gross industry revenue during the 1988/89 marketing season, and (2) the extent retail prices declined in response to lower f.o.b. prices, thereby helping to market the apples remaining in storage this season.

A Major Turn-around During the 1988/89 Apple Season

The record apple harvest of 1987 drove prices to extremely low levels for the entire 1987/88 season. The 1988 harvest was about 17 percent smaller and, with strong demand, the 1988/89 season looked like a good year for apple growers. Prices started the season in late September and October 1988

about 80 percent higher than the year before and remained quite strong until late February when newspaper, radio, and television coverage on the use of Alar on apples intensified. The U.S. price received by growers for all apples declined 11 percent from February to March and another 9 percent from March to April. By June the price was about 44 percent below the price immediately before the media coverage in late February.

Consumer fears about the safety of fresh produce generally were heightened when cyanide was discovered on two Chilean grapes in mid-March and the Food and Drug Administration halted imports of Chilean fruit. In early March, public school officials in New York City, Los Angeles, and several other areas announced that apples and apple products were being removed from school lunch menus.

In May 1989 the Environmental Protection Agency (EPA) increased its estimate of the proportion of apples treated with Alar from about 5 percent of the crop to as much as 15 percent. The EPA also decided to cancel the registration of Alar, having determined it to pose a significant health risk over a lifetime of exposure.

Major Impact on Red Delicious Apples

Regional apple prices indicate that the red delicious apple markets may have been most affected by heightened consumer concerns. The Washington shipping point price for extra fancy red delicious apples was about 44 percent lower for the week ending June 23 than for the week ending February 24. From the week of February 24 to April 21, red delicious apple prices declined 12 percent in the Appalachian region and 9 percent in Michigan. Most red delicious apples in storage were sold in the Appalachian region by the end of April and in Michigan by the end of May. Having marketed a large proportion of the crop in those regions helped moder-

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ate the impact of the heightened consumer concerns about Alar.

In contrast, New York McIntosh apple prices in the Lake Champlain region remained about the same, while Michigan McIntosh apple prices actually rose over 5 percent. Granny Smith apple prices remained strong.

Prices Usually Rise from Late February to Early September

To evaluate the effect consumer health concerns might have had on f.o.b. Washington red delicious apple prices during 1988/89, actual prices were compared to the expected prices that usually occur over a typical season.

The usual or typical seasonal price pattern was estimated by calculating a weekly seasonal f.o.b. price index for Washington red delicious apples at the Wenatchee shipping point. The seasonal index is estimated by removing from the actual price series trend, cyclical, and irregular price changes during January 1983 to March 1989. The index indicates that Washington red delicious apple prices usually drop rapidly at the beginning of the harvest season in late September and stay relatively low through January (figure A-1). Beginning in late January, prices usually rise until the next harvest season in September.

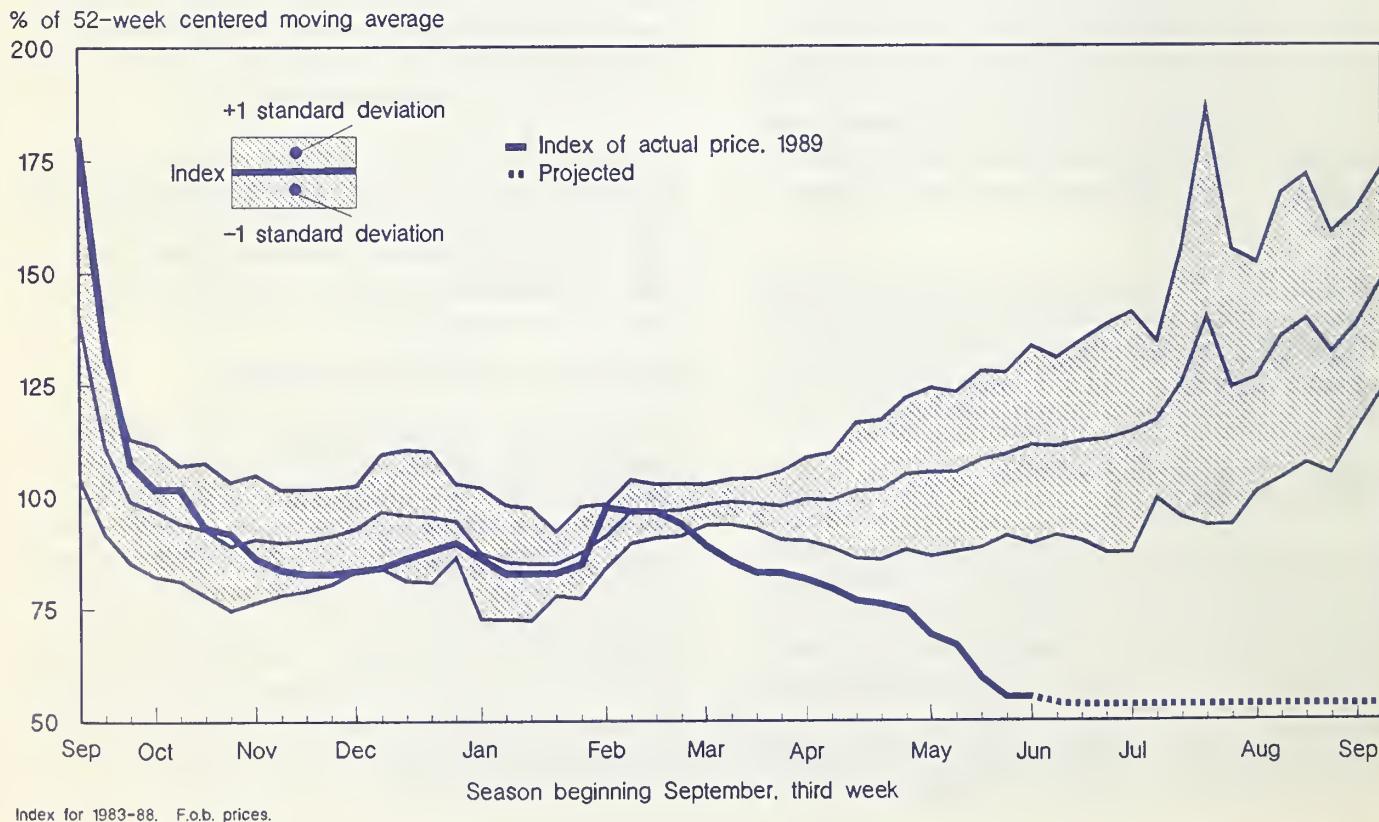
A "band of irregularity," drawn about the index, indicates the general confidence that can be given to the seasonal price movements. Actual prices over any particular season would be expected to follow the general pattern of the index and be within the band of irregularity two-thirds of the time. The narrower (wider) the band the more (less) likely the actual price will follow the estimated index over the season. The index of actual prices would be expected to fall below the band of irregularity less than 16 percent of the time.

The f.o.b. price for the last week in February 1989 (\$14 per 42.5-pound tray pack of Washington red delicious apples) was assumed to be equivalent to the estimated seasonal index of 96.6 for that week (the f.o.b. price during the last week of February is usually 96.6 percent of its centered 52-week moving average). Starting from that week, an index of the actual price was computed back to the beginning of the crop season (third week of September 1988). The index of actual prices since February was calculated going forward through June, the most recent prices available. From June through the second week of September 1989, an index was calculated assuming a projected f.o.b. price of \$7.75 per tray pack.

Prices Drop Sharply After Media Coverage

Comparing the index of actual weekly prices with the expected price from the beginning of the crop season to present indicates a sharp shift at the time the news media cover-

Figure A-1
Seasonal Price Index for Washington Red Delicious Apples



Index for 1983-88. F.o.b. prices.

age on Alar intensified. Before that, the index of actual prices generally followed the expected seasonal index and was within the band of irregularity (figure A-1). However, following the media coverage, the index of actual weekly prices dropped while the seasonal index suggested that prices should remain firm or show some strength. The price dropped below the band of irregularity by the week of March 10. Because there is less than a 16-percent chance that the index of the actual price would fall below the band of irregularity and the turning point occurred at essentially the same time the media coverage intensified, the model provides further evidence of the role of consumer concern in the declining red delicious apple prices this season.

Shipments Decline

Fresh shipments of all Washington apples had been running slightly above the year before during the 4 weeks prior to the last week of February (figure A-2, weeks 5 to 9). Compared with the year before, shipments dropped sharply during March, recovered some in April, then dropped again in May and June (figure A-2, weeks 9 to 23).

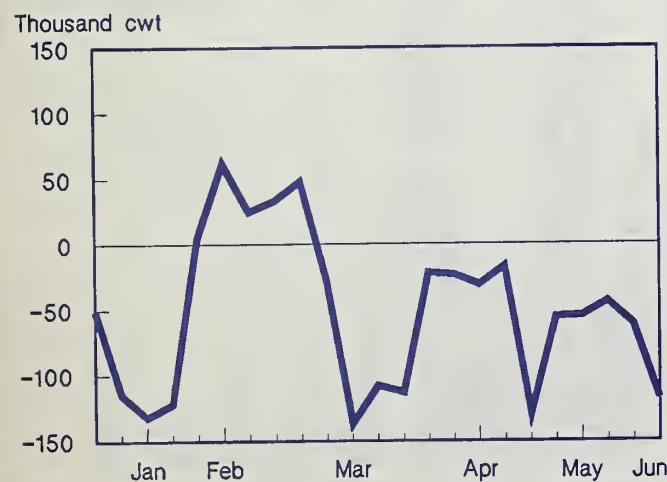
Total U.S. removals of apples from storage from January 1 to June 30, 1989, were 21 percent less or 2.92 billion pounds, compared with 3.70 billion a year earlier. However, shipments for the 1988/89 season would be expected to be below those in 1987/88 because of the smaller crop in 1988 than 1987.

Season Losses In Washington Could Reach \$140 Million

The price impact was felt primarily on the fresh market as prices for processing apples in Washington did not decline after the news media coverage on Alar.

If the fresh price per 42.5-pound tray pack of extra fancy Washington red delicious apples had followed the usual seasonal pattern after late February, it would have been about

Figure A-2
Change In Total Washington Apple Shipments, 1988 to 1989



\$1.50 higher during March, \$3.00 higher in April, \$5.50 higher in May, and over \$8.00 higher in June. Projecting the f.o.b. Washington red delicious price at \$7.75 per tray pack for the balance of the 1988/89 season, actual prices will be \$11 to \$12 lower than what would have been expected based on the first 5 months of the season (third week of September 1988 through the third week of February 1989).

Based on the deviation of actual prices from the expected prices beginning in late February through June and the projected price of \$7.75 per tray pack from June through the second week in September, the total revenue loss to the Washington apple industry is estimated at \$140 million.

The Washington f.o.b. price for red delicious apples rose from lows of around \$7.75 in late June to about \$10.00 by mid-July following the July 7 announcement that USDA would provide up \$15 million to purchase apples. The revenue loss for the 1988/89 season would be reduced to \$120 million, assuming the \$10.00 price holds for the balance of the season.

F.o.b./Retail Price Margin Widens

An important problem was how to market the apples remaining in storage in view of the adverse effect that concerns over Alar were having on consumer demand. The industry increased its advertising to help offset the adverse effect. However, retail prices did not reflect the full decline in f.o.b. prices.

A margin was calculated between the monthly retail prices for U.S. red delicious apples reported by the Bureau of Labor Statistics and the monthly f.o.b. Wenatchee, Washington, shipping point prices for red delicious apples (monthly prices calculated by taking a simple average of the weekly f.o.b. prices for that respective month). Results from January 1983 to May 1989 indicate that margins ranged from 15 to 25 cents per pound until the beginning of the 1986/87 season when they rose sharply to the 35- to 45-cent range (figure A-3). Generally the margin continued to widen from late 1987.

A simple regression between the monthly Washington f.o.b. and the U.S. retail prices for red delicious apples during January 1987 to May 1989 indicates that a 1-cent change in the f.o.b. price results in about a 0.75-cent change in the U.S. retail price.

For June 1989 the margin was 50.7 cents per pound, up from 41.9 cents in February. Statistics in table A-1 indicate that the margins were about 9 cents per pound higher in June 1989 than in February 1989 and for the same month in the previous year.

The increase in margin has exacerbated the problem of marketing the remaining apples this season and put even more downward pressure on f.o.b. prices in Washington.

Figure A-3
Red Delicious Apple Margin

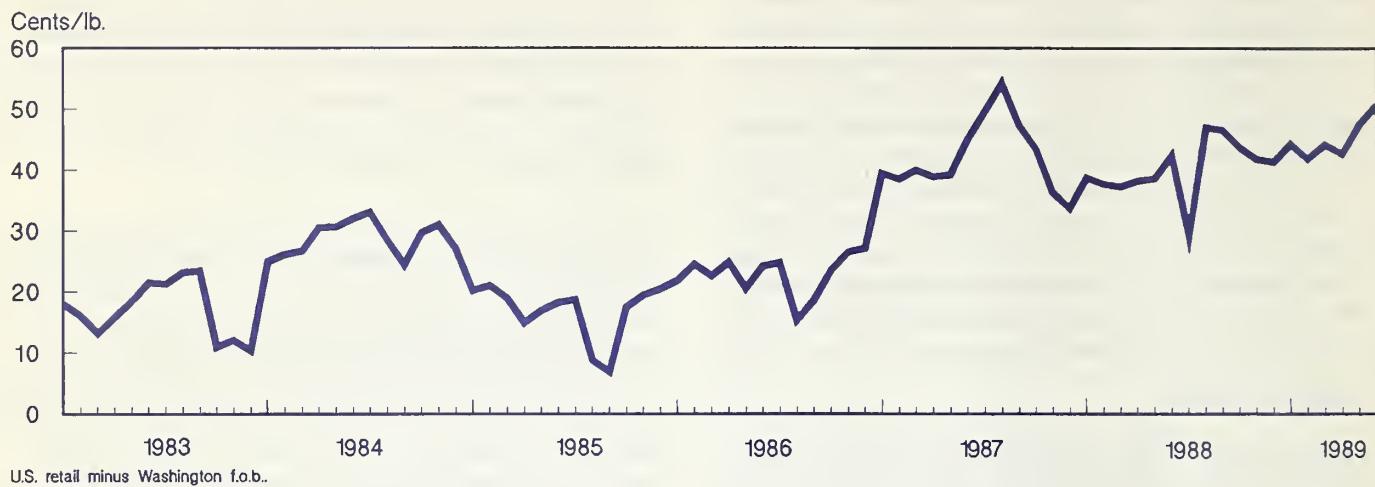


Table 1. Red delicious apple prices and margins

Month/year	Washington f.o.b. 1/	U.S. Retail 2/	Washington f.o.b. 3/	Margin 4/ --Cents/lb--
	dollars			
Jan 1986	20.00	68.90	47.06	21.84
Feb	20.50	72.70	48.24	24.46
Mar	21.00	72.00	49.41	22.59
Apr	20.40	72.80	48.00	24.80
May	24.00	77.00	56.47	20.53
Jun	25.00	83.00	58.82	24.18
Jul	26.00	85.90	61.18	24.72
Aug	36.63	101.50	86.19	15.31
Sep	31.40	92.50	73.88	18.62
Oct	19.40	69.10	45.65	23.45
Nov	17.00	66.50	40.00	26.50
Dec	16.60	66.20	39.06	27.14
Jan 1987	12.50	68.83	29.41	39.42
Feb	14.00	71.47	32.94	38.53
Mar	14.50	74.10	34.12	39.98
Apr	15.35	75.00	36.12	38.88
May	16.63	78.30	39.13	39.17
Jun	17.51	86.20	41.20	45.00
Jul	16.48	88.40	38.78	49.62
Aug	11.55	81.50	27.18	54.32
Sep	10.81	72.90	25.44	47.46
Oct	7.83	61.80	18.42	43.38
Nov	7.78	54.60	18.30	36.30
Dec	8.91	54.70	20.96	33.74
Jan 1988	7.80	57.10	18.35	38.75
Feb	11.00	63.60	25.88	37.72
Mar	11.15	63.50	26.24	37.26
Apr	11.08	64.30	26.07	38.23
May	10.93	64.30	25.72	38.58
Jun	11.30	68.90	26.59	42.31
Jul	21.42	79.70	50.40	29.30
Aug	22.80	100.60	53.65	46.95
Sep	20.87	95.70	49.11	46.59
Oct	14.08	76.80	33.13	43.67
Nov	12.16	70.40	28.61	41.79
Dec	12.45	70.60	29.29	41.31
Jan 1989	12.16	72.90	28.61	44.29
Feb	14.03	74.90	33.01	41.89
Mar	12.71	74.10	29.91	44.19
Apr	11.48	69.70	27.01	42.69
May	9.46	69.70	22.26	47.44
Jun	7.86	69.2	18.49	50.71

1/ Price per 42.5 pound tray pack, Washington red delicious apples, Wenatchee (simple average of weekly prices).

Reported by Agricultural Marketing Service, USDA.

2/ Reported by Bureau of Labor Statistics. 3/ Price/42.5 pound tray pack converted to price per pound. 4/ U.S. retail minus Washington f.o.b. prices for red delicious.

Washington Red Delicious Apples: Fresh Market Prices and Spreads, 1980/81-88/89

by
Joan Pearrow *

Abstract: Between 1980/81 and 1988/89, retail prices and the grower-to-retail marketing spread for Washington red delicious apples rose significantly. The U.S. retail price for all red delicious apples increased 20.1 cents per pound, while the Washington average grower price for fresh market apples increased only 6.0 cents per pound. The growth in the grower-retail spread for three major marketing regions (Northeast, North Central, and West) averaged \$6.64 per 42-pound carton, with the spread widening from \$16.61 in 1980/81 to \$23.25 in 1988/89.

Keywords: Red delicious apples, market prices, and market spreads.

Washington, the largest U.S. apple producer, harvested 3.9 billion pounds of apples for commercial use during the 1988/89 marketing season (August-July). Most Washington apples are for fresh use. Washington's utilized production for fresh use averaged 48 percent of U.S. utilized production for the fresh market and 27 percent of total utilized production during 1980/81-88/89 (figure B-1). Production statistics by apple variety are not available. The "Washington Fruit Survey, 1986" reported red delicious acreage at 75 percent of Washington total apple acreage.

During 1980/81-87/88, apples ranked second in U.S. consumption of noncitrus fresh fruits, averaging 18.5 pounds per capita. Bananas were first, with 22.8 pounds, grapes and peaches came in third and fourth, averaging 5.8 and 4.8 pounds.

This article discusses the procedure for calculating price spreads and compares prices and spreads for Washington red

delicious apples sold in the fresh market during 1980/81-88/89.

Red Delicious Apples Priced at Four Levels

The prices and spreads presented in this article are for red delicious apples sold for fresh use in 42-pound cartons in the Northeast, North Central, and West marketing regions. Average prices are for the October-June marketing season. For this study, Washington red delicious apple (size 88-125, extra fancy) prices were available at the wholesale level and f.o.b. shipping point. Retail prices are for all red delicious apples and grower prices are for all Washington apples. The calculations to obtain season-average prices for each of the regions and the tri-region (average of the three marketing regions) for the four price levels are summarized in table B-1.

The retail value of a 42-pound carton of red delicious apples is the return to the retailer for salable apples (retail price per pound converted to price per carton and adjusted for a 4-percent loss during marketing). Retail prices used were reported monthly by the Bureau of Labor Statistics for the three marketing regions.

Wholesale prices used were the averages per carton of Washington red delicious apples sold in the New York City, Chicago, and Los Angeles wholesale markets on Monday, Tuesday, or Wednesday of the first full week of the month. F.o.b. shipping point prices used are per-carton averages that shippers received during the first full week of the month. Washington grower price is the season average per pound received at the packinghouse door and converted to a 42-pound basis. Wholesale and f.o.b. shipping point prices are reported by the Agricultural Marketing Service, USDA, and grower prices are reported by the National Agricultural Statistics Service, USDA.

Season average retail, wholesale, and f.o.b. shipping point prices for each marketing area are calculated by weighing the monthly average prices by the monthly arrivals of all

Figure B-1
Utilized Apple Production

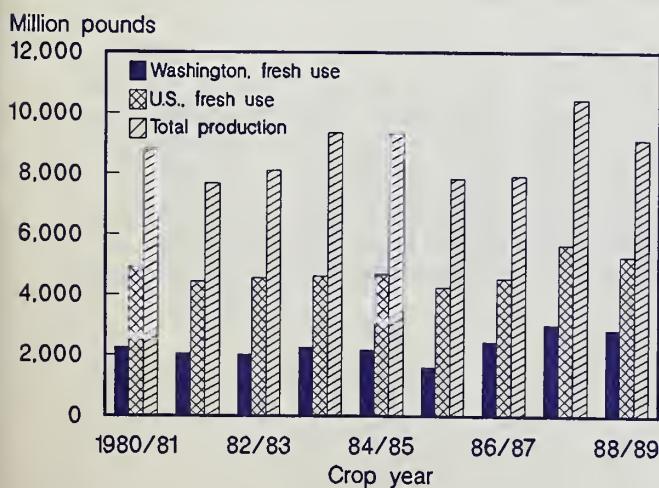


Table B-1--Prices used to calculate spreads for fresh Washington red delicious apples, by region and tri-region season averages 1/

Price level		Season average price calculations 2/		
	Northeast	North Central	West	Tri-region
Grower	Season average prices at packing-house door for Washington apples, all varieties. 3/	Season average prices at packing-house door for Washington apples, all varieties. 3/	Season average prices at packing-house door for Washington apples, all varieties. 3/	Simple average of regions.
F.o.b. shipping point	Washington red delicious extra fancy apples at Wentachee (price for first full week of month). 4/	Washington red delicious extra fancy apples at Wentachee (price for first full week of month). 4/	Washington red delicious extra fancy apples at Wentachee (price for first full week of month). 4/	Simple average of regions.
	Weighted by monthly arrivals of all Washington apples at New York City. 4/	Weighted by monthly arrivals of all Washington apples at Chicago. 4/	Weighted by monthly arrivals of all Washington apples at Los Angeles. 4/	
Wholesale	Washington red delicious extra fancy apples at New York City (price for first full week of month. 4/	Washington red delicious extra fancy apples at Chicago (price for first full week of month). 4/	Washington red delicious extra fancy apples at Los Angeles (price for first full week of month. 4/	Simple average of regions.
	Weighted by monthly arrivals of all Washington apples at New York City. 4/	Weighted by monthly arrivals of all Washington apples at Chicago. 4/	Weighted by monthly arrivals of all Washington apples at Los Angeles. 4/	
Retail value 5/	Monthly price of all red delicious apples in the Northeast. 6/	Monthly price of all red delicious apples in the North Central. 6/	Monthly price of all red delicious apples in the West. 6/	Simple average of regions.
	Weighted by monthly arrivals of all Washington apples at New York City. 4/	Weighted by monthly arrivals of all Washington apples at Chicago. 4/	Weighted by monthly arrivals of all Washington apples at Los Angeles. 4/	

1/All prices expressed or converted to 42-pound carton. 2/Grower season average price (August-July), other season average prices (October-June). 3/Reported by National Agricultural Statistics Service, USDA. 4/Reported by Agricultural Marketing Service, USDA. 5/Retail price adjusted to allow for 4 percent loss incurred during marketing. 6/Reported by Bureau of Labor Statistics, U.S. Dept. of Labor.

Washington apples to New York City for the Northeast, Chicago for the North Central region, and Los Angeles for the West. When a monthly price is not available, that month is excluded from the season average. Grower prices are season-average prices and reported annually.

The grower-shipping point spread includes packing, storing, and selling costs and is derived by subtracting the grower price from the f.o.b. shipping point price. Transportation costs from the shipping point to the wholesale market and wholesaling costs by primary wholesalers in the market comprise the shipping point-wholesale spread (wholesale price minus the f.o.b. shipping point price). The wholesale-retail spread is the retail price less the wholesale price. This spread represents payment received by retailers, intracity

transporters, and secondary wholesalers (wholesalers who buy from local wholesale handlers and resell to other wholesalers, such as jobbers).

Prices Trend Upward

Since 1980/81, prices at each pricing level have generally trended upward. Heavy plantings in the late seventies and early eighties produced a record 1987/88 crop, forcing prices down. Drought and tree stress then reduced production and pushed prices back up in the fall and winter of 1988/89. After consumer concerns about Alar residues on apples and apple products intensified in late February, apple prices decreased to a lower season average than had been expected.

The U.S. season average retail price for red delicious apples advanced from 56.7 cents per pound in 1980/81 to 76.8 cents through June in 1989. The season average price for the record 1987/88 crop dropped 14.2 cents, but resumed its upward trend with the smaller 1988/89 crop. Retail prices during the survey period were generally lowest October through December and highest in the summer months. The November 1987 average price of 54.6 cents per pound was the lowest average monthly price since March 1983.

Monthly average prices rose to over \$1.00 in August 1986 and August 1988 (table B-2).

During the survey period retail value increased more than wholesale, f.o.b. shipping point, or grower prices, rising \$12.22 per carton in the Northeast, \$8.95 in the North Central region, and \$6.33 in the West. The grower price increased the least, \$2.52 per carton. For the tri-region, the wholesale price increase averaged \$5.03 and the f.o.b. shipping point price rose \$2.80 per carton (table B-3).

During 1980/81-88/89, truck rates for transporting a carton of apples from Central Washington to Los Angeles averaged \$1.48, to Chicago \$2.19, and to New York \$3.26 (table B-4). Retail value and wholesale prices were lowest in the West, reflecting lower transportation costs due to the shorter shipping distance. For the tri-region, the retail value averaged \$25.88 per carton, the wholesale price \$16.73, the f.o.b. shipping point price \$12.11, and the grower price \$5.88.

Wholesale-Retail Spread Comprises the Largest Share of Retail Value

Grower price and three spreads (grower-shipping point, shipping point-wholesale, and wholesale-retail) comprise retail value. The shares for each were similar for the three regions. The wholesale-retail spread accounted for the largest share of retail value, 38 percent for the North Central region and 34 percent for both the Northeast and Western regions. The grower-shipping point spread provided the second largest share, followed by grower price. The shipping point-wholesale share was the smallest, averaging 18 percent for the tri-region (figure B-2).

Grower-to-Retail Spread Widens

The grower-to-retail spread for the tri-region increased from \$16.61 per carton in 1980/81 to \$23.25 in 1988/89. In the Northeast the grower-retail spread increased 58 percent, or \$9.70 per carton. The spread increased 37 percent or \$6.43 in the North Central region, and 25 percent or \$3.81 in the West.

For the Northeast and North Central regions, the largest increase in the grower-retail spread appeared in the wholesale-retail spread, which rose \$6.55 and \$5.18 per carton, respectively. For the West, the largest increase appeared in the shipping point-wholesale spread (\$2.93) (table B-3).

During the survey period, the wholesale-retail spread trended upward from an average of \$8.32 per carton in 1980/81 to \$12.45 in 1988/89 for the tri-region (figure B-3). However, in 1987/88 the spread decreased \$1.95 in the West but continued to rise in the other two regions. Arrivals of Washington apples in Los Angeles are traditionally larger than in New York City and Chicago. During the 1987/88 marketing season, arrivals of Washington apples in Los Angeles increased about 30 percent from a year earlier, in New York City about 20 percent, and decreased about 3 percent in Chicago. In addition, the 1987/88 Washington red delicious crop produced smaller apples, which normally bring lower prices. Thus, the large increase of arrivals in Los Angeles, combined with small apples, contributed to a larger decrease in retail value in the West that influenced the spread.

Since 1980/81, the shipping point-wholesale spread increased \$0.97 in the North Central region, \$2.93 in the West, and \$2.81 in the Northeast, averaging \$2.24 for the tri-region. Packing, storing, and selling costs increased \$0.28 on average (figure B-3).

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Table B-2--U.S. red delicious apples: Retail prices by month and season average, 1980/81-88/89

Season	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Average
Cents per pound													
1980/81	80.7	70.2	57.0	49.6	50.3	51.2	50.4	52.5	52.9	53.1	54.6	57.7	56.7
1981/82	66.2	63.0	56.5	58.2	61.7	63.9	64.5	64.8	63.0	66.7	72.2	73.3	64.5
1982/83	68.3	62.7	58.0	53.7	55.6	54.5	53.8	53.2	55.9	58.4	61.5	62.2	58.2
1983/84	67.3	70.7	57.4	56.2	56.8	57.9	60.8	64.0	64.4	64.5	68.2	71.2	63.3
1984/85	73.2	71.7	63.5	65.1	63.6	65.4	67.6	67.7	69.5	71.0	72.3	72.1	68.6
1985/86	70.5	67.1	63.9	66.5	67.5	68.9	72.7	72.0	72.8	77.0	83.0	85.9	72.3
1986/87	101.5	92.5	69.1	66.5	66.2	--	--	74.1	75.0	78.3	86.2	88.4	79.8
1987/88	81.5	72.7	61.8	54.6	54.7	57.1	63.6	63.5	64.3	64.3	68.9	79.7	65.6
1988/89	100.6	95.7	76.8	70.4	70.6	72.9	74.9	74.1	69.7	69.7	69.2	--	76.8

-- =Not available.

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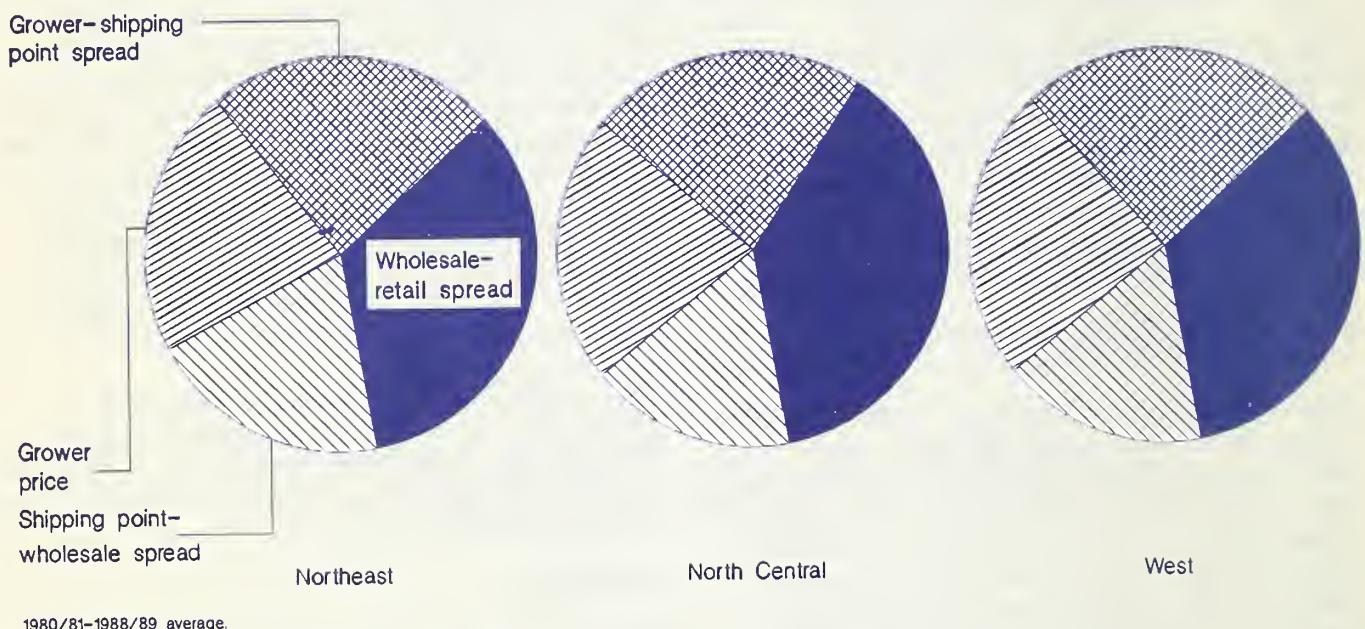
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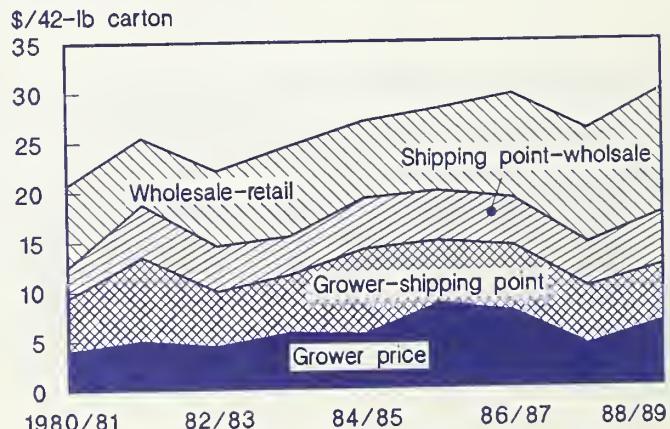
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Figure B-2
Shares of the Retail Value of Washington Red Delicious Apples



1980/81-1988/89 average.

Figure B-3
Price Spreads for Washington Red Delicious Apples



Tri-region average (Northeast, North Central, and West). Grower prices are for August/July; others are for October/June.

Table B-3--Average prices and marketing spreads for Washington red delicious apples, by region, 1980/81-88/89

Region and season (Oct.-June)	Retail value	Prices			Spreads		
		Wholesale	F.o.b. shipping point	Grocer	Wholesale- retail	Shipping point- wholesale	Grocer- shipping point
\$/per 42-pound carton							
Northeast							
1980/81	20.74	12.92	9.27	4.07	7.82	3.65	5.20
1981/82	24.85	18.86	13.36	5.63	5.99	5.50	7.73
1982/83	22.15	15.93	9.90	4.49	6.22	6.03	5.41
1983/84	25.25	15.78	11.31	5.80	9.47	4.47	5.51
1984/85	27.24	20.76	14.11	5.59	6.48	6.65	8.52
1985/86	28.69	20.47	14.72	8.57	8.22	5.75	6.15
1986/87	29.75	19.21	14.18	7.81	10.54	5.03	6.37
1987/88	27.42	14.04	9.88	4.37	13.38	4.16	5.51
1988/89	32.96	18.59	12.13	6.59	14.37	6.46	5.54
North Central							
1980/81	21.68	13.00	9.27	4.07	8.68	3.73	5.20
1981/82	26.38	18.93	13.41	5.63	7.45	5.52	7.78
1982/83	22.62	13.43	9.80	4.49	9.19	3.63	5.31
1983/84	25.94	15.48	11.78	5.80	10.46	3.70	5.98
1984/85	28.01	17.62	13.97	5.59	10.39	3.65	8.38
1985/86	27.17	19.68	14.55	8.57	7.49	5.13	5.98
1986/87	29.97	19.08	14.27	7.81	10.89	4.81	6.46
1987/88	27.67	14.79	9.92	4.37	12.88	4.87	5.55
1988/89	30.63	16.77	12.07	6.59	15.86	4.70	5.48
West							
1980/81	19.62	11.17	9.30	4.07	8.45	1.87	5.23
1981/82	24.92	18.22	13.21	5.63	6.70	5.01	7.58
1982/83	21.28	13.93	9.89	4.49	7.35	4.04	5.40
1983/84	22.27	14.92	11.33	5.80	7.35	3.59	5.53
1984/85	25.35	18.89	13.90	5.59	6.46	4.99	8.31
1985/86	28.55	19.30	14.97	8.57	9.25	4.33	6.40
1986/87	29.00	18.80	14.38	7.81	10.20	4.42	6.57
1987/88	22.66	14.41	10.05	4.37	8.25	4.36	5.68
1988/89	25.95	16.83	12.03	6.59	9.12	4.80	5.44

Season averages are derived by weighting monthly price data by monthly arrivals.

Table B-4--Red delicious apples: Truck rates per season and region, 1980/81-88/89

Season (Oct.-June)	Regions			Average
	North- east	North Central	West	
\$/per 42-pound carton				
1980/81	3.25	2.06	1.50	2.27
1981/82	3.19	2.78	1.33	2.43
1982/83	3.23	2.09	1.47	2.26
1983/84	3.27	2.18	1.35	2.27
1984/85	3.20	2.10	1.41	2.24
1985/86	3.20	2.09	1.48	2.26
1986/87	3.30	2.17	1.56	2.34
1987/88	3.34	2.10	1.57	2.34
1988/89	3.33	2.15	1.62	2.36

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